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Madurai, Tamilnadu

Department of

INFORMATION TECHNOLOGY

Presents

GLITZ

"Work Done with Excellence"



2025 - 2026





GLITZ
2025-2026

DEPARTMENT OF INFORMATION TECHNOLOGY PROFILE

VISION

To be the Center of Excellence in Training the Students in Information Technology Excel both as a Professional and as a Responsible Women in the Society.

MISSION

- ✓ Empower Women by Teaching them Technology and Life Lessons.
- ✓ Encourage Students to be a Change in Society.
- ✓ Educate Students and Prepare them in Various Aspects of IT Industry.
- ✓ Provide Leadership Quality for Effective Strategic and Tactical planning in use of Technology.
- ✓ Instill the Power of Faith and Hope so they could be the Blessing to this Next Generation.

CLUB

Name	ELITE
Motto	“Share the knowledge of light though interaction”
Objective	To improve the quality of the students by blending them together through various brain storming activities
Activities	1. IT & General Quiz 2. Technical paper presentations 3. Group discussion and role play 4. Computer Puzzles 5. Guest lectures on Technical and Managerial Concepts 6. Enhancing the Leadership Qualities through public speech 7. Debugging 8. Inter Departmental Competitions
Club Incharges 2025-2026	Ms. N. Jenifer Sharon Sumathi, Ms. S. Amala Devi
Club Bearers 2025-2026	• President- M. Harini priya • Vice President- K. Kirthika • Secretary- V. Heena shree • Joint Secretary- S. Angeline rose deborah • Treasurer- L. Deepika

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4.	Mrs. T. Charanya Nagammal, M.Sc., M.Phil. Assistant Professor	
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SECRETARY



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JOINT SECRETARY

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GEN Z TECH INNOVATORS: NEW FACES OF TECH

GEN Z TECH INNOVATORS

Introduction:

The global technology landscape is currently witnessing a historic transition as Generation Z—those born between the late 1990s and early 2010s—moves from being "digital consumers" to "digital architects." Unlike previous generations of innovators who had to adapt to the internet and mobile revolutions, Gen Z was born into a world of ubiquitous connectivity and high-speed data. This innate fluency has birthed a new breed of tech leadership that prioritizes ethical frameworks, social equity, and environmental sustainability over mere market dominance. As we navigate the complexities of 2026, these young innovators are not just entering the tech sector; they are fundamentally redesigning its purpose, shifting the industry's focus toward solving "human-scale" problems through decentralized and AI-driven solutions.



The Integration of Digital and Physical Identity

The work of innovators like **Iddris Sandu** signifies a departure from the "Metaverse" as a purely virtual escape, moving instead toward a hybridized reality where the physical and digital are inseparable. Through his venture, Spatial Labs, Sandu has pioneered the use of LNQ (Link) technology—a hardware-software ecosystem that embeds "wearable internet" into physical products. By integrating near-field communication (NFC) and blockchain-backed microchips into fashion and consumer goods, he has created a system where a physical item serves as a secure access key to a digital world. This doesn't just solve the problem of counterfeit goods in the luxury market; it creates a new "spatial economy" where ownership is transparent and verifiable. For Gen Z, this represents the ultimate expression of the "Digital Twin" concept—ensuring that our physical self and our digital assets move in

perfect synchronization, grounded in a decentralized framework that prioritizes user sovereignty over corporate data harvesting.

The Evolution of AI as a Tool for Human Equity

Parallel to the hardware revolution is a software movement led by founders like **Selin Kocalar and Maxim Serebryakov**, who view Artificial Intelligence not as a replacement for human intelligence, but as a bridge to overcome human limitations and biases. Kocalar's work with Delve addresses the "information overload" of the modern workplace, utilizing generative AI to synthesize fragmented data into actionable knowledge, thereby democratizing access to information within large organizations. Meanwhile, Serebryakov's Sanas.ai tackles a deeper social hurdle: linguistic discrimination. By using real-time accent-matching technology, his platform allows global workers to communicate without the friction of accent bias, effectively neutralizing a major barrier to economic mobility for non-native speakers. Together, these innovators demonstrate a core Gen Z philosophy: technology is only as valuable as its ability to flatten hierarchies and foster a more inclusive, productive global society.

Conclusion

As we look toward the remainder of the decade, it is clear that Gen Z tech innovators are the primary drivers of a more responsible and responsive digital era. They have successfully challenged the "move fast and break things" mantra of the Silicon Valley old guard, replacing it with a more intentional focus on "moving fast and fixing things." By blending high-level technical expertise with a deep-seated commitment to social and environmental justice, they are ensuring that the future of technology is not just smarter, but kinder and more equitable. The "new faces of tech" are no longer just visionaries in garages; they are the global leaders ensuring that innovation serves the many, not just the few.

JENITA. B
2025MSIT04

THE VISIONARIES BEHIND CORNER

Eliza Wu and Jake Xia are Co-founders of CORNER, a social discovery and community-driven map app designed to help people find and share their favorite local places through personal recommendations rather than anonymous stars or algorithmic noise.

Who They Are ?



Eliza Wu -

- CEO and Co-Founder of CORNER.
- Educational and Professional background includes a bachelor's degree from University of Southern California and Experience as an investment associate at JPMorgan and venture capital work at Pantheon Ventures.
- She grows up helping in her family's small business, shaping her long-term appreciation for local communities and authentic places.
- Wu personally bootstrapped CORNER, even using saving and credit to get started, driven by her belief that discovery platforms should prioritize human connection over generic ratings.



Jake Xia-

- CTO and Co-Founder of CORNER.
- A self-taught full-stack engineer who began coding as a teenager and built robots in high school.
- Studied at the University of Waterloo before leaving to focus on CORNER.
- He leads the technical development and brings the project's user-centric design to life.

Mission and innovation:

- Curate and share personal maps of meaningful places (restaurants, parks, cafes, shops).
- Captures experiences in a way that reflects why places matter – not just how they score.
- Move away from traditional review models (like Yelp or Google Maps) that rely heavily on anonymous star ratings.

Their Mission centers on helping people explore more meaningfully – “Getting off the phone and into the world” – and fostering local community engagement

Story from Startup to Publication:

Their journey – filled with personal risk, creative product thinking, and community focus – has become part of several feature articles and interviews.

Featured Articles and Interviews:

- An article titled “CORNER IS THE NEW SOCIAL TRAVEL MAP that ‘Digitizes Word of Mouth’” explores how Wu and Xia built a product focused on authentic experience and community storytelling rather than traditional reviews.
- Others Interviews, like in Dreamworldgirlzine, delve into Eliza Wu’s vision, the aesthetic philosophy of the app, and how it caters to Gen-Z’s preferences.

Magazine Expansion and Growth:

CORNER isn’t just an app – it’s becoming media:

- The team has launched a digital magazine to curate rich lists and stories from within the community – essentially turning user – generated content into editorial features.
- This move signals a unique blend of tech product + lifestyles publication, aimed at telling human stories around local discovery and culture.



Importance of Corner:

Unlike conventional travel guides or maps, CORNER champions personal narrative, community belonging, and cultural context- making it ideal for a new style of magazine or editorial piece that focused on:

- The LIVED experiences of users
- The artists and founders behind the product
- Places shape our identities and memories.

NITHYA SREE. G
2025IT31

ALEXANDR WANG

Alexandr Wang is a prominent American tech innovator in artificial intelligence, best known for co-founding **Scale AI** and currently serving in a major AI leadership role at Meta (Facebook's parent company).



Who He Is

- **Name:** Alexandr Wang
- **Born:** January 1997 (Los Alamos, New Mexico, USA)
- **Background:** Son of Chinese immigrant physicists; showed exceptional talent in math and computer science from a young age.
- **Early Work:** Worked as a software engineer in Silicon Valley teens before college.
- **Education:** Briefly attended MIT to study machine learning but dropped out to pursue entrepreneurship.

Scale AI - The Startup That Put Him on the Map

- **Founded:** 2016 (with Lucy Guo) when Wang was just 19.
- **What It Does:** Provides high-quality data labelling, model evaluation, and AI infrastructure — essential services for training advanced AI models (including those used by autonomous vehicles and large language models).
- **Growth:** Became one of Silicon Valley's fastest-growing AI startups, securing major venture backing (including from Peter Thiel's Founders Fund) and contracts with tech giants.

- **Valuation:** Reached multi-billion-dollar valuation nearly \$29 billion in 2025 following a major investment by Meta.

Billionaire & Tech Leader

- **Youngest Self-Made Billionaire:** At around age 24–25, Wang became the world’s youngest self-made billionaire thanks to Scale AI’s rapid growth.
- **Net Worth:** Estimated in the billions (Forbes reports ~\$3.2 billion as of early 2025).

Role at Meta

- In **2025**, after Meta (led by Mark Zuckerberg) invested billions into Scale AI, Wang stepped into a new leadership role — becoming **Meta’s Chief AI Officer**, heading its ambitious superintelligence efforts while remaining on Scale’s board.

Why He Matters

Wang is widely seen as a central figure in structuring the data infrastructure that underpins modern AI systems — particularly because:

- AI systems require vast amounts of labelled and evaluated data to learn effectively.
- Scale AI has become a critical partner for industry leaders and government agencies.

His career exemplifies the impact young innovators can have on shaping core technologies and strategic AI development worldwide.

SHARUMATHI. M
2023IT34

GITANJALI RAO

Inspiring the Future

At just 16, Gitanjali Rao is already making waves in the world of technology and innovation. Named TIME's 'Kid of the Year', this brilliant young scientist from Denver, Colorado is tackling some of the world's biggest challenges.



A Young Inventor

Gitanjali developed 'Tethys', a device that detects lead in water, 'Epione', an app to diagnose opioid addiction, and 'Kindly', an AI based tool to combat cyberbullying.

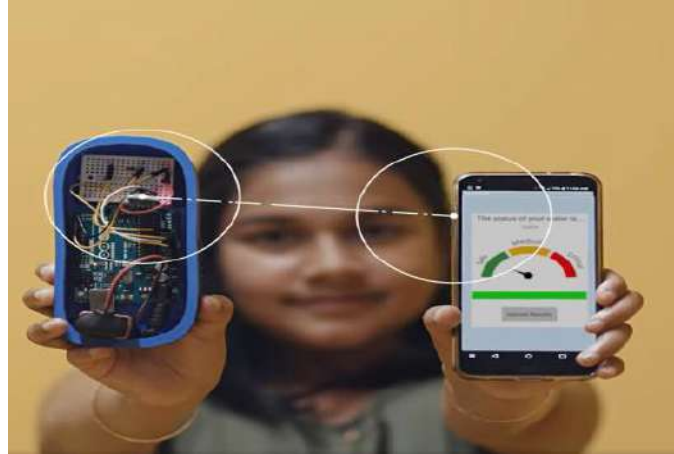
Changing the World

Rao is passionate about inspiring other young innovators. She conducts workshops and talks on STEM education, encouraging kids to "observe, brainstorm, and build".

Using Ai to Identify Water Contamination

Tethys is an artificial intelligence-based water testing tool developed by young innovator Gitanjali Rao to detect lead contamination in drinking water. The device works by using carbon nanotube sensors that react with lead particles in water, and the data is analyzed using AI to determine contamination levels. Tethys is designed to provide faster and more affordable testing compared to traditional laboratory methods, which are often expensive and time-consuming. By making water quality testing more accessible, Tethys aims to help communities identify unsafe water sources quickly and take action to prevent health risks.

caused by lead exposure. This invention highlights how artificial intelligence can be combined with scientific sensing technology to solve real-world environmental and public health problems.



The Future Ahead

With her groundbreaking ideas and drive to make a difference Gitanjali Rao is truly a role model for the next generation of tech leaders.

"I want to create a positive change in the world using science and technology"

MAHALAKSHMI. R
2023IT20

SAM ALTMAN: THE NEW FACE OF TECH INNOVATION

In the rapidly evolving world of technology, Sam Altman stands out as one of the most influential innovators shaping the future. As the CEO of OpenAI, Sam Altman is widely recognized for leading the development of Artificial Intelligence technologies that are transforming how humans interact with machines.



Visionary Leadership

Sam Altman believes that technology should benefit humanity as a whole. Under his leadership, OpenAI has focused on creating AI systems that are powerful, safe, and accessible. His vision is not just about innovation, but about responsibility and ethics in technology.

Revolutionizing Artificial Intelligence

One of Altman's major contributions is advancing generative AI, which allows machines to understand and generate human-like language. This innovation is being used in education, healthcare, software development, and business, helping people work smarter and faster.

Technology for Everyone

Unlike traditional tech leaders who focus only on profits, Sam Altman emphasizes democratizing technology. He supports making AI tools available to students, developers, and small businesses, ensuring that innovation reaches all levels of society.

Shaping the Future

Sam Altman is also actively involved in discussions about AI regulation and safety. He believes that as technology grows more powerful, humans must guide it wisely. His approach represents the new face of tech—where innovation is balanced with ethical responsibility.

Conclusion

Sam Altman symbolizes the modern innovator: forward-thinking, socially responsible, and focused on long-term impact. As Artificial Intelligence continues to reshape the world, leaders like Sam Altman define the new face of technology—one that puts humanity at the centre of innovation.

SHIYAMALA. S
2024IT44

GEN Z TECH INNOVATOR: CATHERINE GOETZE



Catherine Goetze, widely known by her online name CatGPT, is a GenZ technology educator, creator, and entrepreneur who has become a prominent voice in making artificial intelligence understandable and approachable for everyday people. Born in the United States, Catherine represents a new generation of tech leaders who focus not only on innovation but also on responsibility, accessibility, and digital wellbeing.

Catherine rose to prominence through her digital platform CatGPT, where she creates short, engaging videos explaining artificial intelligence, productivity tools, and the future of work. Her content stands out because of its simple language, non-technical explanations, and practical

examples, making AI accessible to people without a technical background.

Through platforms like TikTok, Instagram, and YouTube, she has reached millions of viewers, especially young people curious about how AI fits into daily life. Beyond content creation, Catherine is also an innovator and entrepreneur. She founded Physical Phones, a retro-style Bluetooth landline phone designed to help users reduce smartphone screentime while staying connected. This project reflects her philosophy of intentional technology use, encouraging healthier relationships with digital devices. The product gained widespread attention and commercial success, highlighting her ability to turn thoughtful ideas into real-world solutions.

Catherine's work has been featured in respected publications such as TIME magazine, and she has been recognized as an influential voice in AI education and digital culture.

She is often described as one of the new faces of tech, representing a generation that values clarity, ethics, creativity, and balance in technological progress.

Through her role as an educator, creator, and innovator, Catherine Goetze continues to inspire people to understand technology rather than fear it, making her an important figure in the evolving landscape of modern technology.

BHAVANA. S
2024IT06

PRANJALI AWASTHI AND THE RISE OF AI-LED RESEARCH



In the rapidly evolving world of technology, Generation Z innovators are emerging as powerful contributors, challenging traditional ideas of age, experience, and leadership. Among these new faces is Pranjali Awasthi, a young artificial intelligence entrepreneur whose work demonstrates how curiosity, early exposure to technology, and clear vision can lead to impactful innovation.

Pranjali Awasthi began her journey into technology at an unusually young age. While many students are introduced to coding during their college years, she started learning programming in childhood. This early exposure allowed her to develop a strong foundation in logic, problem-solving, and computational thinking. Identifying a common challenge faced by researchers worldwide, Pranjali noticed that a significant amount of time was spent searching through complex documents and datasets rather than analyzing insights. To address this issue, she founded Delv.AI, an artificial intelligence-powered platform designed to simplify research processes. Delv.AI enables users to quickly extract, organize, and understand information from large volumes of data. What sets Pranjali apart is not just her technical ability, but her maturity as a founder. She approached product development with a problem-first mindset, ensuring that her technology addressed real-world needs. Her startup quickly gained attention for its practical applications, attracting users and investors from across the globe. Pranjali Awasthi's story reflects a broader shift in the innovation landscape. Today's young technologists are no longer waiting for formal credentials or long industry experience to make an impact. With access to digital resources, mentorship communities, and global platforms.

**KAMATCHI. K
2024IT25**

**SHE BUILDS:
FEMALE TECH
INNOVATORS OF
2025**

SHE BUILDS: FEMALE TECH INNOVATORS OF 2025

Technology in 2025 is being shaped by women who combine innovation, creativity, and purpose. Across fields like Artificial Intelligence, UI/UX design, cybersecurity, and startups, female innovators are leading change by solving real-world problems and designing technology that truly serves people.

Despite challenges, these women have transformed obstacles into opportunities. Their journeys highlight the importance of continuous learning, confidence, and resilience in the tech industry. They stand as role models for students who aspire to build meaningful careers in technology.

Irene Au

(UX Design Leader)



Irene Au is a well-known name in the world of UX design. She has led design teams at companies like Google and Yahoo, where her focus was not just on how products look, but on how people feel while using them. Her work helped make complex digital products simple and user-friendly.

What makes her inspiring is her belief that good design starts with understanding users, not trends. She encourages designers to observe, listen, and design with empathy. For students interested in UI/UX, her journey shows that design is about problem-solving, creativity, and human connection.

Irene Au proves that design has the power to shape experiences—and designers shape the future.

“You can’t not have ‘no design’. Because whatever you end up with, whether you pay attention to design or not, is your design. There is only careless design or thoughtful design. Choose to design thoughtfully”

You don’t need permission to innovate. Start learning, start building, and believe that your ideas matter.

DIVYADARSHINI. T
2024MSIT07

CAMILLE BOUGET

Camille Bouget is a Rising Innovator, French Entrepreneur and Scientist best known as the Co-founder and CEO of Scienta Lab, a deeptech startup based on Paris, France that uses Artificial Intelligence (AI) to advance precision medicine, with a particular focus on immunology and inflammatory diseases.



Background and Career Path

- Camille holds a PharmD degree from the University of Bordeaux and a Master’s in Marketing, Management & Digital from ESSEC Business School, France.
- After working in pharmaceutical product management (including roles at Sandoz and Sanofi) focused on immunology and inflammation, she teamed up with her brother Vincent Bouget and Julien Duquensne to found Scienta Lab.

What She Built?

- Camille's biggest contribution is her role in building Scientia Lab, a Techbio company combining AI with biomedical science to accelerate precision medicine.
- The company's technology tackles one of the major challenges in drug development and personalised healthcare: understanding and predicting how individual patients will respond to specific treatments for complex immune-mediated diseases.

AI Platform & Innovation

- AI-Powered Precision Immunology: Scientia Lab's core technology uses advanced AI and machine learning to analyze multimodal patient data (clinical, biological, molecular etc..) and model immune responses at the individual level.
- These models help predict treatment outcomes and identify biomarkers that indicate which patients are likely to benefit from specific therapies.

Focus Areas in Precision Medicine

- Camille's work at Scientia Lab centers on: Immuno-inflammatory diseases – such as rheumatoid arthritis and other autoimmune conditions – where patient variability makes treatment outcomes unpredictable.
- Translational research support – helping pharmaceutical and biotech companies make earlier, data-driven decisions about which therapeutic pathways to pursue.
- Predictive biomarkers & patient satisfaction – using explainable AI to find signature that indicate likely responses to treatments, enabling truly personalized therapies.

Recognition and Impact

- 2025 European Prize for Women Innovators – Rising Innovator Award : Camille won this prestigious award for her contributions to AI-driven precision medicine with Scientia Lab.
- Her leadership exemplifies how AI can bridge the gap between computational technology and real-world therapeutic innovation, influencing how tomorrow's medicine are discovered and optimized.

Why Her Work Matters?

Camille's approach helps address several major obstacles in modern biomedicine

- **Reducing trial failures:** By predicting which treatments are likely to succeed earlier in the R&D process, costly late-stage failures can be minimized.
- **Personalized Therapies:** Stratifying patients into subgroups based on predicted responses enables truly tailored treatment plans.
- **Accelerating Innovation:** Her AI models support faster, more informed decision-making in drug development and clinical strategy.

Inspirational Lessons

- Camille Bouget Emphasizes using personal industry challenges like identifying patients for therapies, to drive innovation during R&D phases.
- She advocates for an inclusive ecosystem where young women pursue bold ideas, as shared post her award win.
- Her story shows leaving corporate comfort for entrepreneurship yields impact in healthcare.

"From Lab to Launch: Women redefine what's possible."

S. ANGELINE ROSE DEBORAH
2025IT06

FEMALE TECH INNOVATORS OF 2025

Global Tech Leaders & Visionaries

- Lisa Su – CEO of AMD, leading AI-optimized processor innovation.
- Mira Murati – Founder & CEO of Thinking Machines Lab, advancing multimodal AI.
- Fei-Fei Li – AI pioneer focused on computer vision and ethical AI.
- Navrina Singh – Founder & CEO of Credo AI, driving AI governance standards.
- Safra Catz – CEO of Oracle, leading AI-powered cloud innovation.
- Adena Friedman – CEO of Nasdaq, integrating AI and blockchain into finance.

Founders & Startup Innovators

- Reshma Saujani – Founder of Girls Who Code, advancing gender equity in tech.
- Anne Wojcicki – Co-founder of 23andMe, innovating personalized medicine.
- Kelly Vero – Gaming and metaverse technology innovator.
- Lesley Sackey – Founder building AI tools for domestic abuse survivors.
- Lata Setty – Tech entrepreneur and investor supporting female-led startups.

Emerging Innovators & Award Finalists

- Rhona Togher – Smart acoustic technology (Lios).
- Débora Andreia Campelo Campos – Sustainable food innovation (AgroGrin Tech).
- Elizabeth McGloughlin – Medical endoscopy innovation.
- Olesja Bondarenko – Nanotechnology wound care solutions.
- Saba Nisar & Sarah Lucena – FemTech and AI hiring technology founders.

Business & Investment Leaders

- Jayshree Ullal – CEO of Arista Networks.
- Erin Harkless Moore – Investment leader backing female-led tech startups.

S.KANISHKA DHARANI
2025IT22

MIRA MURATI



Full Name: Ermira “Mira” Murati

Born: December 16, 1988

Birthplace: Vlorë, Albania

Mira grew up during a period of major change in Albania as the country transitioned politically and economically. From a young age she showed a strong aptitude for mathematics and science, interests her parents supported even though they were literature teachers themselves.

At age 16, Mira won a **United World Colleges (UWC)** scholarship to study at **Pearson College UWC** in British Columbia, Canada. UWC is known for bringing together students from around the world and emphasizing global thinking, ethics, and critical problem-solving experiences that shaped her worldview and future ambitions.

OpenAI - The Defining Chapter

Mira joined OpenAI in June 2018 as *Vice President of Applied AI and Partnerships*. Over the next few years she rose quickly:

- **2020:** Senior leadership role focused on research and product development.
- **2022:** Promoted to Chief Technology Officer (CTO).
- **2023:** Briefly served as Interim CEO during a leadership crisis at OpenAI.

As CTO, Mira helped lead teams behind ChatGPT, DALL-E, Codex, and Sora some of the

most transformative AI tools widely used today. Her leadership role made her one of the most recognized figures in AI globally.

She also became known for advocating AI safety, transparency, and ethical development not just technical performance.

Founding Thinking Machines Lab (2025)

After leaving OpenAI in late 2024 citing a desire to pursue her own vision beyond existing corporate constraints, Mira launched Thinking Machines Lab in February 2025.

About the Startup

- **Name:** Thinking Machines Lab
- **Founded:** February 2025
- **Headquarters:** San Francisco, USA
- **Mission:** Build AI systems that are more accessible, understandable, customizable, and human-aligned with a focus on transparency, usability, and long-term capability.

Unlike many tech startups, Thinking Machines was structured as a public benefit corporation, which means its mission includes a commitment to public good, not just profit. Mira recruited top talent from OpenAI, Meta, Google DeepMind, and other leading labs, assembling teams to push the boundaries of AI research and product design.

Record-Setting Funding

In mid-2025 the company raised a massive \$2 billion seed round led by major investors like Andreessen Horowitz, Nvidia, AMD, Cisco, ServiceNow, and Accel, giving it an estimated \$12 billion valuation, one of the largest seed rounds in tech history.

This reflected both confidence in her leadership and the belief that the startup could play a major role in shaping the next era of AI.

MEENA. M
2023IT24

FEMALE TECH INNOVATOR: RESHMA SAUJANI



Reshma Saujani is an American lawyer, activist, and technology entrepreneur known for encouraging girls to participate in computer science and technology. She is the founder of the nonprofit organization Girls Who Code, which aims to reduce the gender gap in the technology industry. Her work has inspired thousands of young women to learn coding and pursue careers in science, technology, engineering, and mathematics.

Reshma Saujani founded Girls Who Code in 2012 after realizing that very few girls were studying computer science. She believed that girls were not always encouraged to explore technology careers. To change this situation, she created programs that teach girls how to code and build technology projects.

The organization provides summer programs, after-school clubs, and online courses where students learn programming languages, problem solving, and teamwork. Many students who participated in these programs later chose to study computer science in college and work in the technology field.

Reshma Saujani is also a motivational speaker and author. She often talks about confidence and encourages young women to take risks and try new things in their careers. Her message focuses on teaching girls to be brave instead of always trying to be perfect. Through her work, Reshma Saujani has become an important leader in promoting diversity and inclusion in technology. Her efforts continue to inspire young people around the world to develop digital skills and become future innovators.

AROCKIA REGIYA. R
2023IT04

NISHA AMANULLA



Nisha Amanulla is a distinguished technology leader known for her contributions to innovation, digital transformation, and inclusive tech leadership. Recognized as a **Technical Leader in 2025**, she has built a strong reputation for combining deep technical expertise with strategic thinking. Her work reflects a commitment to developing scalable, reliable, and future-ready technology solutions that address real-world challenges.

With extensive experience in engineering and technology management, Nisha Amanulla has played a key role in designing and implementing advanced systems that improve efficiency, performance, and security. She is particularly admired for her ability to bridge the gap between complex technical concept sand practical business needs, making technology more accessible and impactful across organizations. Her leadership style emphasizes collaboration, innovation, and continuous learning.

Beyond her professional achievements, Nisha Amanulla is also a strong advocate for diversity and inclusion in the tech industry. She actively supports initiatives that encourage women and underrepresented groups to pursue careers in technology. Through mentorship and leadership, she continues to inspire the next generation of technologists, making her a notable and influential figure in the evolving global tech landscape.

In 2025, Nisha Amanulla received recognition through Women in Digital and Technology leadership platforms, highlighting her influence as a role model for aspiring women technologists. This recognition is not only for her technical knowledge but also for her commitment to mentoring, ethical technology use, and encouraging diversity in STEM fields. Her achievements showcase how leadership in tech today goes beyond coding to include vision and responsibility.

In conclusion, Reshma Saujani has played a powerful role in changing the technology landscape for young women. Through her organization Girls Who Code, she has helped thousands of girls gain confidence and skills in computer science. Her work encourages young women to step into fields where they have traditionally been underrepresented. By promoting courage, creativity, and equality in technology, Saujani continues to inspire the next generation of innovators. Her efforts remind us that when more girls are given opportunities in technology, the future of innovation becomes more diverse, inclusive, and impactful.

RIZWANAA ASIN. S
2023IT31

ALVINA ANTAR- LEADING DIGITAL TRANSFORMATION IN 2025



In 2025, technology is no longer just a support function, it drives business growth, innovation, and customer experience. Among the women redefining this digital era, **Alvina Antar** stands out as one of the most influential female tech innovators. As a Chief Digital Officer (CDO), she represents a new generation of leaders who bridge the gap between business strategy and digital innovation. Her work shows that true innovation is not only about creating technology, but using it strategically to transform how organizations operate and serve people.

Driving Innovation and Business Impact

Alvina Antar is widely recognized for her leadership in digital transformation, enterprise technology modernization, and customer centric innovation. She has led large scale initiatives that moved organizations from traditional systems to agile, data-driven platforms. By integrating artificial intelligence for smarter decisions, cloud computing for scalability, and data analytics for business insights, she ensures technology investments deliver measurable impact. Her leadership improves efficiency, enhances customer experience, and builds future-ready digital ecosystems. As a Chief Digital Officer, Alvina's role extends beyond IT management. She designs digital strategies that support long term growth, leads innovation across departments, modernizes legacy systems, and uses analytics for smarter decision-making. Her approach demonstrates that digital transformation is not a one time project, but a continuous journey requiring vision, strategy, and people-focused leadership.

Achievements and Inspiration

Alvina Antar's achievements are seen across enterprise digital transformation, technology driven customer experience, and leadership in change management. She has replaced outdated systems with flexible, cloud-based solutions, helping organizations become faster, more efficient, and responsive to market demands. By leveraging digital tools, data, and automation, she has enhanced customer experiences, enabling personalized and seamless interactions. She also guide teams through change, builds digital skills, and fosters a culture of innovation.

Her work is particularly impactful in 2025, as organizations face rapid AI adoption, rising digital competition, and increasing customer expectations. Alvina Antar's leadership ensures that companies remain competitive and future ready. Beyond her technical and strategic achievements, she inspires young women aspiring to tech leadership, students entering digital careers, and professionals looking to combine business and technology. She proves that innovation is about impact, not titles, and that women can excel at the highest levels of technology leadership.

“Technology leadership is not about titles—it is about creating meaningful impact.”

Alvina Antar truly embodies the spirit of a Female Tech Innovator of 2025. Through vision, strategy, and purposeful use of technology, she has transformed organizations while inspiring the next generation of tech leaders. Her journey sends a powerful message: Technology has no gender, and innovation belongs to those who lead with clarity, courage, and purpose.

GRACY VINNARASI. S

2023IT11

SHE BUILDS: FEMALE TECH INNOVATORS OF 2025



Radha Vembu, India's Quiet Powerhouse Shaping the Future of Tech

In a world driven by technology, India is undergoing a significant change. Women are moving beyond simple participation, becoming influential leaders who drive innovation and industry growth. Among these trail blazers of 2025, Radha Vembu stands out for her notable achievements in tech and her impactful approach to enterprise software and global competitiveness.

Her Journey from Chennai to the Pinnacle of Tech Leadership

Radha Vembu, born in the early 1970s, may not be as recognized as some Silicon Valley founders, yet she is one of India's most influential innovators in the global technology and enterprise software sectors. A graduate of the Indian Institute of Technology Madras, Vembu

combines strong engineering skills with strategic leadership. She has become the majority owner of Zoho Corporation, one of India's most successful software companies. Founded in 1996 by her brother Sridhar Vembu, Zoho has transformed from a small software venture into a global suite of cloud-based business tools that competes with industry giants. Products like Zoho CRM, Zoho Mail, and a growing range of enterprise tools are now used by millions of businesses worldwide, demonstrating how a homegrown Indian tech company can thrive without following Silicon Valley norms.

A New Era for Indian Tech

The year 2025 marks a key moment for women's leadership and software innovation in India. Industry rankings show that Radha Vembu is now among the richest self-made women in the country, a major achievement in a field still largely led by men. Her influence has earned her a spot on Hurun India's 2025 Women Leaders list, representing not just wealth but a significant impact on India's technology ecosystem. What makes Vembu unique is not her media presence but her resilience. She has expertly guided Zoho through years of rapid change, moving from desktop software to SaaS platforms while maintaining independence and vision. In a landscape where many companies chase quick profits and buy outs, Zoho stays privately held, focusing on customer value and sustainable growth.

Why Her Story Matters

Radha Vembu's leadership reflects a broader trend: women are combining tech skills with strategic vision in businesses. By 2025, female innovators in India will no longer be exceptions, they lead in AI startups, enterprise technology, and next-generation platforms. Women-focused tech platforms are gaining traction, empowering this generation of women creators to redefine products and innovation culture. What makes Vembu's journey particularly inspiring is that it goes beyond her wealth or corporate position; she represents a success model built on solid technical expertise, patient leadership, and a dedication to nurturing lasting companies. In an industry often influenced by hype and venture capital pressures, Vembu's steady climb reminds us that innovation often comes not from the loudest voices but from focused leaders who build with purpose.

Looking Ahead: The Future of Women in Tech

As India's tech economy keeps growing covering areas like AI, cloud computing, healthcare technology, and sustainable platforms women innovators are becoming more visible. Whether as founders, CEOs, researchers, or community builders, they show that shaping the future requires more than technical skills; it needs vision, leadership, and a commitment to inclusion. In 2025, Radha Vembu not only leads the way but also symbolizes the amazing potential of what women can achieve when barriers fall, and opportunity meets talent.

T.T. VALLIKANNAMMAI
2023IT42

DR. AMBER HILL – A FEMALE TECH INNOVATOR OF 2025



Technology has become one of the most powerful tools for solving global problems. In recent years, many women have made remarkable contributions to the technology industry and have become leaders in innovation. One such inspiring figure is Dr. Amber Hill, a British tech entrepreneur known for transforming the healthcare research industry. Her work in artificial intelligence and healthcare technology has earned her recognition in major technology communities and awards in 2025.

Dr. Amber Hill is the founder and Chief Executive Officer of Research Grid, a company that develops digital tools to improve the efficiency of clinical trials. Clinical trials are essential for developing new medicines and treatments, but they often involve complex procedures and a large amount of paperwork. These processes can slow down research and increase costs. Dr. Hill recognized this problem and decided to use technology to improve the system.

With her background in neuroscience and artificial intelligence, Dr. Hill created an AI-

powered platform that automates administrative tasks in clinical trials. Her company's technology helps hospitals, pharmaceutical companies, and research institutions manage patient records, research documents, and trial data more efficiently. By digitizing and automating many of these processes, Research Grid saves time for researchers and reduces the chances of human error.

One of the most important goals of Dr. Hill's innovation is to allow scientists and doctors to focus more on medical discoveries rather than paperwork. Clinical trial staff often spend a significant amount of time handling documents and managing data manually. Research Grid's platform uses artificial intelligence to process information quickly and organize it in a structured way. As a result, clinical trials can be conducted faster and more accurately.

Under Dr. Hill's leadership, Research Grid has experienced rapid growth. The company has collaborated with several global pharmaceutical companies and research institutions. These partnerships help improve the quality and speed of clinical trials worldwide. By making research more efficient, her technology indirectly contributes to faster development of life-saving medicines and treatments.

Dr. Hill's work has also been recognized through awards and industry recognition. In 2025, she received recognition at the Women in Tech Awards for her outstanding contributions to healthcare technology and innovation. This award highlights her influence as a leader in the technology industry and celebrates her achievements as a female entrepreneur.

Beyond her technological achievements, Dr. Amber Hill also serves as a role model for women and young students who aspire to work in science, technology, engineering, and mathematics (STEM). The technology industry has traditionally been dominated by men, but innovators like Dr. Hill demonstrate that women can lead groundbreaking advancements in the field. Her success encourages more women to pursue careers in technology and entrepreneurship.

Furthermore, her work shows how technology can be used to address real-world challenges. Instead of focusing only on business growth, Dr. Hill's innovations aim to improve healthcare systems and ultimately help patients receive better treatments. This combination of technology and social impact makes her contributions especially meaningful.

In conclusion, Dr. Amber Hill is an outstanding example of a female tech innovator in 2025. Through her company Research Grid, she has introduced artificial intelligence solutions that simplify and improve the process of clinical research. Her achievements not only advance the

healthcare technology industry but also inspire the next generation of innovators. Dr. Hill's work proves that technology, when combined with creativity and determination, can make a significant difference in the world.

JEYAPRIYA. J
2024IT22

CEO OF ARISTA NETWORKS – JAYSHREE ULLAL



Jayshree Ullal, president and CEO of Arista Networks has topped the Hurun Rich List for 2025. Ullal has emerged as the richest self-made woman entrepreneur in the list. Ullal has a net worth of \$5.7 billion, which is higher than that of Satya Nadella (Microsoft CEO) and Sundar Pichai (Google CEO). To recall, Google CEO Sundar Pichai entered the billionaire club this year and has a net worth of \$1.1 billion, according to the Bloomberg Billionaires Index. Born in London and Ullal was raised in Delhi. She moved to the United States for her higher education. She completed her Bachelor's degree in Electrical Engineering from San Francisco State University and later went ahead to pursue a Master's in Engineering Management from Santa Clara University.

Jayshree Ullal's career graph Ullal started her professional journey at AMD and Fairchild Semiconductor. She then joined Cisco Systems in 1993. At Cisco, she rose to become senior vice president and also played an important role in scaling the company's data center business. Then, in 2008 she joined Arista Networks as the CEO. At that time it was a little-known cloud networking firm. However, under Ullal's leadership the company transformed and became a global name in offering high-performance networking solutions for cloud data centers. Jayshree Ullal's net worth

As per the Hurun India Rich List 2025, Ulla has the net worth of Rs 50,170 crore which makes her the richest Indian-origin woman CEO. As mentioned above, Ullal joined Arista Networks in 2008 and the company recorded revenue of \$7 billion in 2024 which is 20% higher as compared to the previous year, as reported by Forbes. Apart from Arista Network, Ullal is also on the board of directors of Snowflake which a cloud computing company which went public in 2020. As per Forbes, Ulla also owns around 3% of Arista's stock. Apart from topping the Hurun India Rich List, Ullal also hold the 8th spot America's richest self-made women list for the year 2025.

JEYAVARSHINI. P
2024IT23

GIOVANNA DIPASQUALE CROWNED FEMALE INNOVATOR OF THE YEAR 2025



Schlieren, Switzerland — The eighth edition of the Female Innovation Forum, organized by the business community Ladies Drive, once again celebrated the power of women-led innovation in Switzerland. Held at JED in Schlieren, the event brought together nearly 250 participants, including entrepreneurs, business professionals, mentors, and investors, all united by a shared vision of advancing female entrepreneurship and technological progress. The highlight of the evening was the Award Night, honoring female founders whose work delivers meaningful economic and societal impact. The prestigious title of Female Innovator of the Year 2025 was awarded to Giovanna Dipasquale, CEO and co-founder of HeroSupport, for her groundbreaking contributions to cancer care.

Transforming Radiotherapy with Innovation

Founded in 2022 as a spin-off from the Geneva University Hospital (HUG), HeroSupport is redefining breast cancer radiotherapy through its flagship solution, VENUS SHELL. This patient-specific, 3D-printed immobilization system, designed for prone-position radiotherapy, significantly improves treatment precision while reducing side effects and enhancing patient comfort and quality of life.

Beyond patient benefits, the solution also optimizes clinical workflows, making daily practice more efficient for medical professionals. Since April 2025, HeroSupport has been collaborating with the Swiss Medical Network, integrating its technology into radio-oncology centers such as Clinique de Genolier and Clinique Générale-Beaulieu in Geneva. The startup is currently working toward obtaining medical approvals to accelerate broader market entry.

Recognition Award for AI-Driven Well-Being

The Recognition Award was presented to Lara Gervaise, CEO and co-founder of Virtuosis AI, a Lausanne-based startup dedicated to improving workplace well-being. Using artificial intelligence to analyze speech patterns, Virtuosis AI detects early signs of stress and psychological strain among employees.

Developed during Gervaise's doctoral research at EPFL, in collaboration with AI specialists and behavioral psychologists, the technology is already being applied in real-world settings. Founded in 2022, Virtuosis AI counts Microsoft among its partners. As part of the award, Gervaise will receive mentorship and support from Siemens and Advance to further advance her career and company growth.

Honoring Excellence in Sustainability and Design

The forum also recognized two additional female innovators for their exceptional achievements:

Barbara Brendler, founder of Nonchalant, received the Social Innovation and Design Award by USM and the Canton of Zurich's Office for Economic Affairs. Her company champions sustainable nutrition by producing bouillon powder from rescued vegetables.

The Design Award by USM Modular Furniture went to Tanja Klein, founder of the fashion label Kleinbasel, celebrated for her minimalist, sustainable designs that combine durability,

aesthetics, and Swiss craftsmanship.

A Platform for Inspiration and Impact

The Female Innovation Forum once again proved to be more than an awards ceremony. Through inspirational keynotes, impulse workshops, and startup showcases, the event provided a dynamic platform for collaboration, learning, and inspiration—reinforcing the vital role women play in shaping the future of innovation and entrepreneurship in Switzerland.

SANTHIYA. S

2024IT39

SHE BUILDS: FEMALE TECH INNOVATORS OF 2025

Fei-Fei Li (World Labs): Co-founder of a spatial intelligence company developing “large world models” for AI.



Artificial intelligence has become one of the most influential technologies of the modern era, transforming industries and redefining human interactions with machines. Among the pioneers shaping this revolution, Fei-Fei Li stands out as one of the most inspiring leaders. Often referred to as the “Godmother of AI”, she is a renowned researcher and innovator whose work played a crucial role in teaching machines how to see, learn, and understand the world.

Born in China, raised in the United States, Fei-Fei Li pursued her passion for science through studies in physics and later computer science. Her deep interest in visual perception led her to specialize in computer vision, a field that enables machines to interpret images and videos. Her most celebrated contribution, ImageNet, transformed artificial intelligence by providing a massive collection of labeled images that allows deep learning models to achieve remarkable accuracy. This breakthrough laid the foundation for modern applications such as facial recognition, medical imaging, robotics, and self-driving cars.

Beyond research, Fei-Fei Li has been a professor at Stanford University and served as the Chief Scientist of AI at Google Cloud, guiding both academic and industrial innovation. In recent years, she co-founded World Labs, a company focused on developing spatial intelligence and “large world models” that allow AI systems to understand three-dimensional space and real-world interaction. This technology is expected to play a key role in the future of robotics, autonomous systems, and augmented reality.

Equally important is her commitment to ethical and human-centered AI. She strongly advocates fairness, transparency, and inclusiveness in technology, reminding the world that innovation must always serve humanity. Through her vision, leadership, and dedication, Fei-Fei Li continues to shape the future of artificial intelligence and inspire the next generation of tech innovators.

MURUGESH. J
2023 IT26

MODERN JOB SKILLS

MODERN JOB SKILLS

What Employers Really Want Today

In today's fast-changing world, having a degree alone is no longer enough to secure a good job. Technology, globalization, and digital transformation have changed the way companies work and hire employees. Employers now focus more on skills than just marks or certificates. These abilities are known as modern job skills, and they play a key role in building a successful career.

What Are Modern Job Skills?

Modern job skills are a combination of technical skills, soft skills, and digital skills that help individuals perform effectively in the workplace. These skills allow employees to adapt to new technologies, work efficiently in teams, solve problems, and communicate clearly.

Key Modern Job Skills

1. Digital Literacy

Digital literacy is one of the most important modern job skills. It includes basic computer knowledge, using the internet safely, handling emails, working with documents, spreadsheets, and understanding online tools. In almost every field, digital skills are essential.

2. Communication Skills

Good communication skills help employees express ideas clearly and confidently. This includes speaking, writing emails, presentations, and listening carefully. Strong communication improves teamwork and reduces misunderstandings at work.

3. Problem-Solving Skills

Employers value people who can analyze situations and find solutions. Problem-solving skills show creativity, logical thinking, and the ability to handle challenges calmly. These skills are useful in both technical and non-technical jobs.

4. Adaptability and Learning Ability

Technology changes very fast, so employees must be ready to learn new tools and methods. Adaptability means being flexible and open to change. Employers prefer candidates who are willing to upgrade their skills continuously.

5. Technical Skills

- **IT field:** programming, cybersecurity, data analysis
- **Design field:** graphic design, UI/UX tools
- **Business field:** digital marketing, data handling

6. Teamwork and Collaboration

Most organizations work in teams. Teamwork skills include cooperation, respect for others' ideas, and working together to achieve goals. Employers look for candidates who can work well with different people.

7. Time Management

Time management is the ability to complete tasks efficiently within deadlines. Employees who manage time well are more productive and less stressed, which benefits both the individual and the organization.

8. Emotional Intelligence

Emotional intelligence helps people understand and manage their emotions and those of others. It improves leadership, teamwork, and conflict management. This skill is highly valued in modern workplaces.

Why These Skills Are Important?

- They increase employability
- They help in career growth
- They improve confidence and professionalism
- They make individuals future-ready

How Students Can Develop Modern Job Skills

- Participate in internships and projects
- Take online courses and certifications
- Practice communication and teamwork
- Learn new technologies regularly
- Gain real-world experience through workshops and training

Conclusion

Modern job skills are essential for success in today's competitive job market. While education provides knowledge, skills provide the ability to apply that knowledge effectively. Students who focus on developing modern job skills along with academic learning will have better career opportunities and long-term success.

ARUNITHA. A

2023IT05

MODERN JOB SKILLS

In competitive world, having the right skills is crucial for career success. Employers no longer focus only on academic degrees; they want candidates who can adapt, solve problems, and contribute creatively. Technical skills such as programming, data analysis, artificial intelligence, cloud computing, and digital marketing are highly valued in modern industries. These skills help individuals stay relevant as technology continues to shape workplaces and business processes.



Equally important are soft skills, which are essential for team work and effective communication. Skills like critical thinking, adaptability, leadership, time management, and emotional intelligence allow professionals to handle challenges efficiently. For example, an employee who can collaborate with a team, manage deadlines, and communicate ideas clearly is often more successful than someone with only technical knowledge. In the modern workplace, employers look for people who are quick learners, flexible, and ready to take initiative.

Developing these skills requires continuous learning and practical experience. Students can participate in internships, workshops, online courses, and collaborative projects to strengthen both technical and soft skills. Networking, attending seminars, and joining professional communities also help in gaining industry exposure. By combining knowledge, creativity, adaptability, and effective communication, young professional scan build a strong foundation for a successful career. Preparing early and staying updated with industry trends ensures that students remain competitive and ready for the jobs of the future.

**MAHASHRI. D
2023IT21**

MODERN JOB SKILLS

In today's fast-changing world, having a degree alone is not enough to get a good job. Employers now look for modern job skills that help employees work smarter, adapt quickly, and solve problems effectively. These skills are important for both freshers and experienced professionals.

One of the most important modern job skills is digital literacy. Employees are expected to know how to use computers, mobile applications, online platforms, and basic software tools. From sending emails to managing data, digital skills are needed in almost every profession. Communication skills also play a major role in the workplace. Being able to express ideas clearly, work in a team, and handle clients politely helps in building a good professional image. Good communication improves teamwork and reduces misunderstandings.

Problem-solving and critical thinking are highly valued skills today. Companies want employees who can analyze situations, find solutions, and take quick decisions. These skills help organizations overcome challenges and grow faster.

Another important skill is adaptability. Technology and work methods change frequently, so employees must be ready to learn new things. People who are flexible and open to learning can easily adjust to new roles and responsibilities.

Finally, time management and self-discipline are essential in modern jobs, especially with remote and hybrid work systems. Being able to complete tasks on time and manage multiple responsibilities shows professionalism and reliability.

In conclusion, modern job skills are a combination of technical knowledge and personal qualities. Students who start developing these skills early will have better career opportunities and a brighter future in the competitive job market

HARISHREE. S
2023IT13

MODERN JOB SKILLS



Skills Required for the Modern Workplace

The modern workplace is no longer defined by physical offices or fixed working hours. With the rise of hybrid work models, digital transformation, and automation, organizations are adopting “anywhere operations”, enabling employees to work and collaborate from any location. This shift has changed the type of skills required to succeed in today’s work environment.

As automation and intelligent systems handle routine tasks, employees must focus on adding value beyond machines. They need to be comfortable working in digital environments and be ready to adapt continuously as new roles and technologies emerge.

Key skills for the modern workforce include mental flexibility and learning agility, which help individuals adapt to constant change and develop new capabilities. Strong communication and digital collaboration are essential for effective team work in remote and hybrid settings. Network leadership allows professionals to influence and connect through digital platforms, while data literacy supports better and faster decision-making. Finally, self motivation enables individuals to stay focused, achieve goals, and grow despite challenges.

Emerging Skills for Modern Jobs

Rapid technological advancement and changing work cultures have transformed the nature of modern jobs. Automation, artificial intelligence, and remote work have reshaped how organizations operate and what they expect from employees. As a result, success in modern careers depends on a combination of technical, cognitive, and human-centered skills.

One of the most important modern job skills is critical thinking, which enables individuals to analyze problems, evaluate options, and make informed decisions in complex situations. Creativity and innovation are equally valuable, as they help employees develop new ideas, improve processes, and solve challenges that machines cannot handle.

Emotional intelligence has become essential in diverse and remote work places. Understanding emotions, showing empathy, and managing interpersonal relationships improve teamwork and leadership effectiveness.

Adaptability and resilience allow professionals to respond positively to change, uncertainty, and fast-paced environments.

Overall, modern job skills go beyond technical knowledge. A balanced mix of digital competence, problem-solving ability, emotional awareness, and adaptability prepares individuals for long-term career success in a rapidly evolving world.

In conclusion, success in the modern work place depends not only on technical expertise but also on adaptability, continuous learning, and a positive, self- driven mindset.

DEVIBANU. K
2023IT09

MODERN JOB SKILLS



Modern job skills blend essential “Soft” abilities like critical thinking, communication, adaptability, and teamwork with crucial “hard” digital and technical skills, including AI\Machine Learning , data analysis, cybersecurity, cloud computing, and digital marketing, all underpinned by a strong foundation of emotional intelligence ,leadership ,and a growth mindset for continuous learning.

Top Soft Skills (Human Skills):

- Critical thinking & problem-solving: Analyzing information, spotting trends, and devising creative solutions.
- Adaptability & flexibility: Thriving in rapidly changing environments and learning new things quickly.
- Communication: Clear verbal, written, and presentation skills for effective collaboration.
- Emotional Intelligence (EQ): Understanding and managing your own and others' emotions.
- Teamwork & collaboration: Working effectively with diverse groups.
- Leadership & Initiative: Taking ownership, motivating others, and showing self-direction.
- Time Management & Organization: Prioritizing tasks and meeting deadlines efficiently.
- Creativity & Innovation: Generating novel ideas and approaches.

Top Hard & Technical Skills (Digital Skills):

- Artificial Intelligence (AI) & Machine Learning (ML): Using AI for smart decision, automation, and analytics.
- Data Analysis: Interpreting data to drive business strategy.
- Cybersecurity: protecting digital systems and data.
- Cloud Computing: Managing cloud infrastructure .
- Software/Web Development: Building and maintaining digital platforms.
- Digital marketing: Using online tools for promotion and engagement.
- UX/UI Design: Creating user – friendly digital experiences.



The ultimate goal of going to college is not just to get the degree, but to land a careers well. Obviously, employer want to make sure you are qualified for the job by having the appropriate degree, but they also need to know if you have the skill set too.

The Top 5 Skills Employers Look for Include:

1. Critical thinking and problem solving
2. Teamwork and collaboration
3. Professionalism and strong work ethic
4. Oral and written communications skills
5. Leadership

Why is Critical Thinking Important?

Critical thinking is necessary for almost every job. Employees need to be able to analyze evidence, question assumption, test hypotheses, observe and draw conclusion from any form of data. Critical thinking is not just a skill, but a habit formed to help with problem-solving.

KIRUBASHINI. A
2025IT23

MODERN JOB SKILLS

1. Communication Skills

Communication skills are one of the most important modern job skills required in today's workplace. Effective communication helps employees share ideas clearly, avoid misunderstandings, and build strong professional relationships. In a modern work environment, communication takes place through emails, reports, meetings, video conferences, and presentations.



Written communication skills are essential for drafting clear emails, reports, and official documents. Proper language, clarity, and organization reflect professionalism. Verbal communication skills are equally important for participating in meetings, explaining ideas, and giving presentations with confidence. Listening skills also play a major role, as understanding others is as important as expressing one's own thoughts.

In addition, modern workplaces value visual communication skills such as creating presentations, charts, and infographics. These tools help present complex information in a simple and attractive manner. Strong communication skills improve teamwork, increase efficiency, and contribute to overall organizational success.

2. Adaptability and Continuous Learning

Adaptability and continuous learning are essential skills in the rapidly changing modern job market. Technological advancements and evolving industry requirements demand that employees adjust quickly to new tools, roles, and work environments. Adaptable individuals

are open to change and can perform effectively even in unfamiliar situations.



Continuous learning involves regularly updating knowledge and skills through training programs, online courses, workshops, and self-study. Rather than relying only on past education, modern professionals must be willing to learn new technologies and improve their abilities throughout their careers.

Employees who demonstrate adaptability and a learning mindset remain relevant and competitive in the workforce. These skills support career growth, increase job security, and help organizations respond successfully to change.

RENUGA. S
2023IT30

ESSENTIAL MODERN JOB SKILLS FOR THE IT INDUSTRY

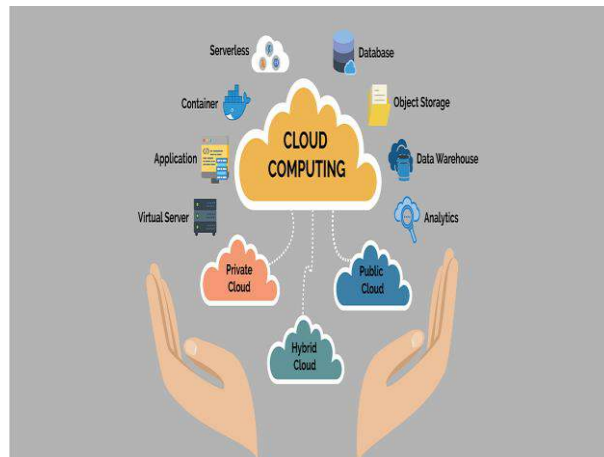
Introduction:

Modern job skills are essential to succeed in today's fast-changing world. They include digital literacy, communication, and problem-solving abilities. Creativity and critical thinking help professionals innovate and adapt. Mastering these skills makes individuals competitive and future-ready.

Core IT Technical Skills:

These technical skills are highly sought after across the entire IT sector and are critical for managing the digital infrastructure of a modern organization.

1. Cloud Computing:



Proficiency in platforms such as AWS, Google Cloud, or Azure is required to manage scalable and flexible infrastructure.

2. Cybersecurity:



Cyber security is very important. It protects sensitive data, user information, and computer systems from online threats.

3. Data Science and Analytics:

Data science and analytics are useful in many organizations. They help to collect data and study it clearly. These skills support better decisions and improve overall performance.



4. Software and Web Development:



Software and web development involve creating website and applications. Programming languages like python and JavaScript are commonly used. These skills help to build reliable and user friendly system.

5. Artificial Intelligence:

Artificial intelligence and machine learning help computers work automatically. They reduce human effort and save time. These technologies improve accuracy and efficiency in daily tasks.

ABIRAMI S
2024IT02

MODERN JOB SKILLS

Introduction

In to days fast-changing world, the skills needed for jobs are very different from those required in the past. Modern workplace depend on Technology, Teamwork, and creativity. To succeed in these jobs, people must develop modern job skills such as communication, Problem solving techniques, digital literacy, and adaptability, face new challenges, and keep up with changes in the workplace.

Key Difference:

Old skills	modern skills
Routine-based	Innovation-based
Manual work	Knowledge & tech-driven
Fixed careers	Flexible career paths
Local work places	Global & remote work

Communication skills

Communication skills are essential for job. They include Writing emails, Speaking clearly and presenting new ideas. They good in communication helps to build team work and reduces Misunderstanding at the workplace



Digital skills

Digital are one of the most important modern job skills. These include using computers, the

Digital increase productivity and help employees work smarter



Old & Modern work style

- Fixed office or factory location
- Long-term single roles
- Limited technology
- Clear top-down management

- Remote/hybrid work
- Project-based tasks
- Continuous learning
- Cross-disciplinary roles

Conclusion

The both jobs are plays a important roles in the world of work. The old job skills, such as craftsmanship, discipline, and face-to-face communication, built strong foundation for reliability and practical knowledge.

Modern job skills build a successful career. Skills like digital knowledge, team work and time management, changing job requirement. it developing these skills not only improves job opportunities but also helps people grow personally and professionally. Therefore, focusing on modern job skills is important for building a successful and knowledgeable career.

BEYULA ANGEL. S
2024IT05

MODERN JOB SKILLS

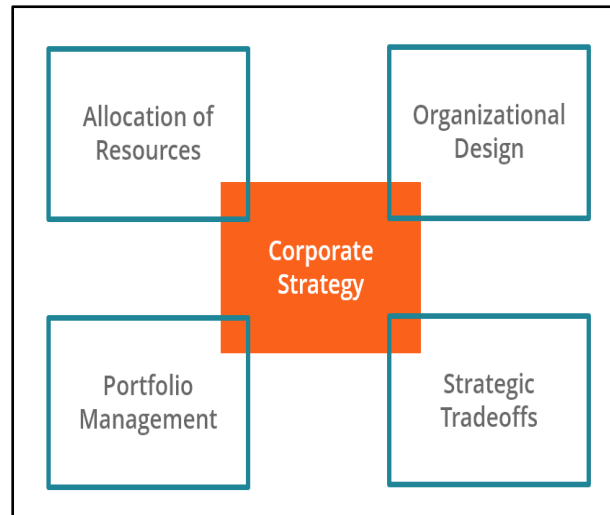
Key Aspect of Corporate Strategy:

- Portfolio Management: Deciding which business to own and how they fit together. (example: diversification, divestiture)
- Resource Allocation: Prioritizing investments across different business units for maximum impact.
- Value Creation: Ensuring synergies between divisions, making the whole greater than the sum of the parts.
- Long-term Vision: Defining mission, vision, and objectives for the entire organization.

A company's overarching, long-term plan defining its overall direction, scope, and goals across multiple businesses, focusing on which markets to enter/exit, how to allocate resources (people, money, assets), and ensuring all units create more value together than apart.

Common types of Corporate Strategies:

- Growth/Expansion: Entering new markets or acquiring other business (eg: concentric or conglomerate diversification)
- Stability: Maintaining current market position and operations.
- Retrenchment/Divestiture: Exiting unprofitable business or cutting back.
- Combination: A mix of the above strategies.



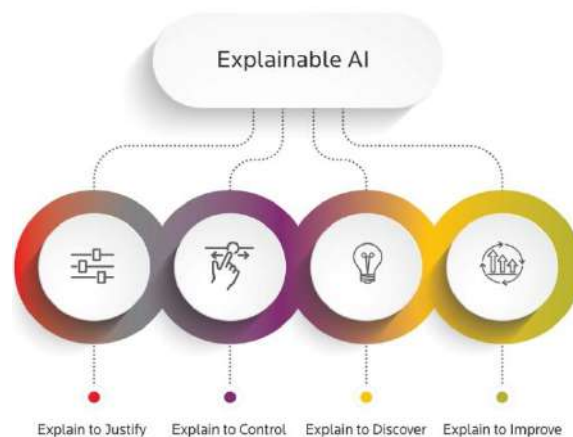
DHARANEESWARI. P
2024IT10

EXPLAINABLE AI

EXPLAINABLE AI

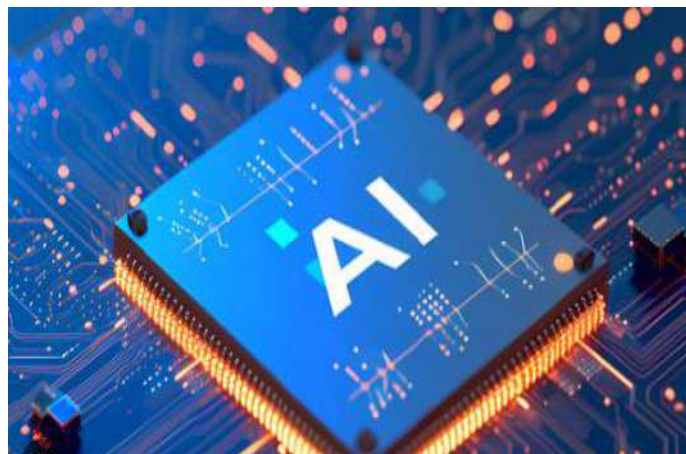
Abstract

Explainable Artificial Intelligence (XAI) addresses these concerns by developing methods and systems that make AI decisions understandable to humans. XAI aims to balance performance with interpretability, enabling users to see *why* a model made a particular decision rather than simply accepting the result. Explainable AI refers to a set of techniques and design principles that allow humans to understand, interpret, and trust the outputs of AI models.



An explainable system provides insight into:

- Which inputs influenced a decision
- How different factors were weighted
- Why one outcome was chosen over alternatives
- When and why a model may be uncertain or unreliable



Why Explainability Matters

1. Trust and Adoption

Users are more likely to trust and adopt AI systems when they understand how decisions are made.

2. Accountability and Responsibility

In regulated domains, organizations must justify automated decisions. Explainability enables audits, error analysis, and responsibility assignment when AI systems cause harm or make mistakes.

3. Bias fairness

Opaque models can unintentionally reinforce societal biases. XAI helps identify whether protected attributes (such as race or gender) are influencing outcomes unfairly.

4. Legal and Regulatory Compliance

Regulations such as the EU's General Data Protection Regulation (GDPR) emphasize the right to explanation for automated decisions. XAI supports compliance by making AI behavior interpretable.

Applications of Explainable AI

- **Healthcare:** Explaining diagnoses, treatment recommendations, and risk predictions.
- **Finance:** Justifying credit approvals, loan denials, and fraud detection.
- **Autonomous Systems:** Understanding decisions made by self-driving cars or drones.
- **Human Resources:** Explaining hiring and promotion recommendations.
- **Security and Defense:** Supporting human oversight in mission-critical systems.

In each case, explainability supports safer and more responsible AI deployment



Challenges in Explainable AI

Despite progress, XAI faces several challenges:

- **Accuracy vs. Interpretability Trade-off**

Highly interpretable models may sacrifice performance, while high-performing models are often less transparent. Finding the right balance remains an open problem.

- **Explanation Quality**

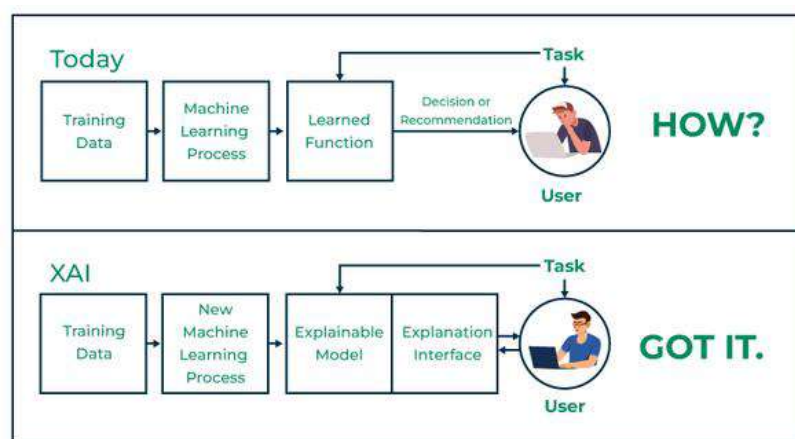
Not all explanations are meaningful to end users. An explanation that satisfies a data scientist may confuse a non-technical user.

- **Risk of False Confidence**

Poorly designed explanations can give users unjustified confidence in flawed models, masking biases or errors.

- **Standardization**

There is no universal definition of what constitutes a “good” explanation. Different domains require different explanation standards.



The Future of XAI

As AI becomes more deeply integrated into society, explainability will move from a desirable feature to a **core** requirement. Future research is likely to focus on:

- Human-centred explanations tailored to different users

- Combining interpretability with robustness and fairness
- Standard evaluation metrics for explanation quality
- Explainability by design, not as an afterthought

Ultimately, XAI is not just about understanding machines, it is about aligning AI systems with human values, ethics, and decision-making processes.

Conclusion

Explainable Artificial Intelligence plays a crucial role in ensuring that AI systems are transparent, fair, and trustworthy. By shedding light on how AI models make decisions, XAI enables responsible use, supports regulatory compliance, and strengthens human-AI collaboration. As AI continues to evolve, explainability will remain essential to building systems that are not only powerful, but also understandable and accountable.

MUTHU BHAVANI.M
2025MSIT06

EXPLAINABLE AI

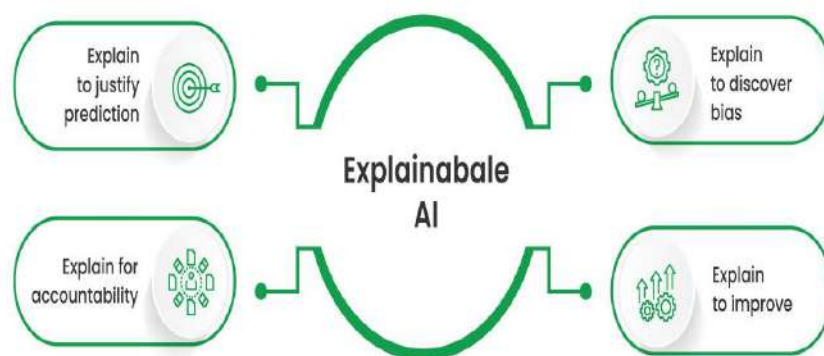


Explainable AI (XAI) is a branch of AI focused on making complex machine learning models transparent, so humans can understand how and why they reach certain decision, moving beyond “black box” predictions to build trust, ensure fairness, debug models, and meet regulator needs in high – stakes fields like healthcare, finance, and autonomous vehicle. XAI

techniques provide explanation for AI outputs, revealing factors influencing outcomes, identifying biases, and characterizing model strengths, which is crucial for ethical adoption and accountability.

Key Goal & Benefits of XAI

- **Trust & Adoption:** Understandable explanation foster confidence in AI system, encouraging wider use.
- **Debugging & Improvement:** Pinpoint errors and biases in models, leading to better performance.
- **Fairness & Accountability:** Identify and Mitigate unfair biases learned from data.
- **Regulator Compliance:** Meet legal requirements, like GDPR, that mandate understandable automated decisions.
- **Human Oversight:** Allow users to scrutinize and validate AI decisions, especially in critical application.



What is Explainable AI?

- Explainable artificial intelligence (XAI) is a set of processes and methods that allows human users to comprehend and trust the result and output created by machine learning algorithms.
- Explainable AI is used to describe an AI model, its expected impact and potential biases.

Why Explainable AI Matters?

It is crucial for an organization to have a full understanding of the AI decision – making processes with model monitoring and accountability of AI and not to trust them blindly. Explainable AI can help humans understand and explain Machine learning (ML) algorithm, deep learning and neural networks.

How Explainable AI Works?

With explainable AI as well as interpretable machine learning, organizations can gain access to AI technology's underlying decision making and are empowered to make adjustments. Explainable AI can improve the user experience of a product or service by helping the end user trust that the AI is making good decisions. When do AI system give enough confidence in the decision that you can trust it, and how can AI system correct errors that arise?

Benefits of Explainable AI

Operationalize AI with trust and confidence. Build trust in production AI. Rapidly bring your AI models to production. Ensure interpretability and explainability of AI models. Simplify the process of model evaluation while increasing model transparency and traceability.

Speed Time to AI Results

Systematically monitor and manage models to optimize business outcomes. Continually evaluate and improve model performance. Fine-tune model development efforts based on continuous evaluation.

Mitigate Risk and Cost of Model Governance

Keep your AI models explainable and transparent. Manage regulatory, compliance, risk and other requirements. Minimize overhead of manual inspection and costly errors. Mitigate risk of unintended bias.

Five Considerations for Explainable AI

To drive desirable outcomes with explainable AI, consider the following.

- **Fairness and debiasing:** Manage and monitor fairness. Scan your deployment for potential biases.
- **Model drift mitigation:** Analyze your model and make recommendations based on the most logical outcome. Alert when models deviate from the intended outcomes.
- **Model risk management:** Quantify and mitigate model risk. Get alerted when a model performs inadequately. Understand what happened when deviations persist.
- **Lifecycle automation:** Build, run and manage models as part of integrated data and AI services. Unify the tools and processes on a platform to monitor models and share outcomes. Explain the dependencies of machine learning models.
- **Multicloud-readiness:** Deploy AI projects across hybrid clouds including public clouds, private clouds and on premises. Promote trust and confidence with explainable AI.

KIRUBAHINI. A
2025IT23

EXPLAINABLE AI

Explainable AI is artificial intelligence that can explain its decisions in a way humans can understand.

Why Explainable AI is Important

- Builds trust in AI
- Helps detect errors and bias
- Useful in healthcare, banking, education, law
- Makes AI transparent and fair

Where Explainable AI is Used

- **Healthcare:** Explains why a disease is predicted
- **Banking:** Explains loan approval or rejection
- **Self-driving:** Explains driving decisions

Future Uses of AI

- **Healthcare:** Early disease detection, robot surgeries, personalized treatment.
- **Education:** Smart tutors, personalized learning, automatic evaluation.
- **Transportation:** Self-driving cars, traffic control, accident prevention.
- **Jobs & business:** Automation, smart decision-making, customer support chatbots
- **Environment:** Climate prediction, energy saving, disaster management
- **Daily life:** Smart homes, voice assistants, recommendation systems

Benefites of AI in the Future

- Saves time and effort
- Improves accuracy and efficiency
- Helps in complex problem solving
- Supports innovation and growth

SEVAMIRTA SREELEKA. V
2025IT41

EXPLAINABLE AI

Introduction to Explainable AI

Explainable Artificial Intelligence (XAI) is an important and growing area of artificial intelligence that focuses on making AI systems transparent, understandable, and interpretable to humans. In recent years, AI has been widely adopted in various fields, but many advanced models function as “black boxes,” where decisions are produced without clear explanations. This lack of clarity creates concerns about trust, safety, and accountability. XAI helps users understand how inputs are processed and how outputs are generated by AI systems. It improves clarity in automated decision-making processes and builds confidence among users and organizations. Explainable AI is especially important in applications that directly impact human lives, such as healthcare, finance, and law enforcement. By offering understandable insights, XAI ensures that AI systems are reliable, user-friendly, and aligned with human expectations. It improves communication between humans and intelligent systems and ensures that AI decisions are not hidden or unclear.

Need for Explainable AI

As AI systems become more complex and data-driven, understanding their decision-making process becomes increasingly difficult. Users often hesitate to trust AI systems when they cannot justify or explain their outcomes. This lack of trust can limit the adoption of AI technologies. Explainable AI is especially necessary in sensitive domains such as healthcare, banking, insurance, and legal systems, where decisions can have serious consequences. XAI helps identify errors, bias, and unfair outcomes in AI models. Many governments and regulatory bodies require transparency in automated decision systems to protect user rights. Explainable AI ensures accountability and promotes the ethical use of artificial intelligence. Without explainability, AI systems may lead to misuse, discrimination, or incorrect decisions. XAI helps organizations take responsibility for AI-driven outcomes and ensures fair decision-making.

How Explainable AI Works

Explainable AI works by applying a range of techniques that make AI model behavior easier to understand. These techniques highlight the most important features or inputs that influence a particular decision. Visual explanations such as graphs, charts, heat maps, and feature importance scores are commonly used. Some AI models are designed to be interpretable by nature, such as decision trees and rule-based systems. Other complex models, like deep neural networks, generate explanations after predictions are made. These explanations describe why a specific output was produced. Explainable AI simplifies complex mathematical calculations into human-readable insights. The explanation techniques vary depending on the model, data, and application. Overall, these methods help users validate results and develop trust in AI outputs.

Advantages of Explainable AI

Explainable AI provides several important advantages in modern AI systems. It increases transparency by clearly showing how decisions are made. Users can understand, verify, and question AI predictions when necessary. XAI supports ethical and unbiased decision-making by identifying hidden biases in data or models. It enables developers to debug, monitor, and improve AI systems more efficiently. Explainable AI also supports legal compliance, audits, and regulatory requirements.. It builds confidence among users, decision-makers, and stakeholders. In the long term, XAI improves system reliability and reduces the risk of harmful or incorrect decisions.

Disadvantages of Explainable AI

Despite its benefits, Explainable AI has several limitations. In some cases, making models explainable may reduce accuracy, especially for highly complex systems. Designing meaningful and accurate explanations can be technically challenging. Some explanations may still be difficult for non-technical users to understand. Explainable AI increases development time, cost, and computational requirements. In certain situations, explanations may oversimplify complex decision processes and fail to capture full model behavior. Some explanations may not accurately represent how the model truly works. High implementation cost and lack of expertise can limit widespread adoption. These limitations highlight the need for balanced approaches in XAI development.

Applications of Explainable AI

Explainable AI is widely used across many industries. In healthcare, XAI helps doctors understand AI-based diagnoses and treatment recommendations. In finance, it justifies loan approvals, credit scoring, and fraud detection decisions. Explainable AI improves cybersecurity by clarifying threat detection and risk analysis processes. In education, it analyzes student learning patterns and performance outcomes. Autonomous vehicles and robotics use XAI to ensure safe and reliable decision-making. Government and public-sector systems use XAI for transparency and accountability. These applications increase trust in AI-based systems.

Challenges in Implementing Explainable AI

Implementing Explainable AI presents several challenges. One major challenge is balancing accuracy and explainability, as highly accurate models are often harder to interpret. Deep learning and neural network models are complex and difficult to explain clearly. There is no single explanation method suitable for all AI applications. Designing explanations that are understandable for different user groups is challenging. Scalability is another concern when working with large datasets and real-time systems. Integrating XAI techniques into existing AI infrastructures requires additional effort. A lack of skilled professionals also limits effective implementation. Continuous evaluation and validation of explanations are necessary to maintain reliability.

Ethical and Legal Aspects of Explainable AI

Explainable AI plays a vital role in promoting ethical and legal responsibility in AI systems. It helps reduce bias, discrimination, and unfair treatment in automated decisions. Many laws and regulations require AI systems to provide explanations for decisions that affect individuals. Explainable AI supports accountability by allowing decisions to be audited and reviewed. It protects user rights and promotes data privacy. Ethical AI practices strengthen public trust in technology. Explainability ensures that AI systems operate responsibly and transparently. It helps organizations meet legal, ethical, and compliance requirements effectively.

Future Scope of Explainable AI

The future of Explainable AI is highly promising. As AI adoption increases, the demand for transparent and accountable systems will continue to grow. Research in explanation techniques will advance rapidly. XAI is expected to become a standard component in AI development and deployment. Future AI systems will integrate explainability by design. Explainable AI will support safer and more responsible AI adoption across industries. It will improve collaboration between humans and intelligent machines. XAI will influence future AI policies, standards, and regulations. It will play a key role in developing human-centered AI systems.

Conclusion

Explainable AI is essential for building trustworthy, ethical, and reliable artificial intelligence systems. It helps users understand how AI decisions are made and ensures transparency in automated processes. XAI improves accountability, fairness, and confidence in AI technologies. Although Explainable AI has certain challenges and limitations, its advantages are significant. It supports responsible AI development and deployment. Explainable AI strengthens trust between humans and intelligent systems. It ensures that artificial intelligence benefits society in a safe and ethical manner.

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2025MSIT03

EXPLAINABLE AI

Making Artificial Intelligence Easy to Understand

Introduction

Artificial Intelligence (AI) is now part of our daily life. It helps in mobile apps, online shopping, healthcare, education, and many other fields. But most AI systems work like a “black box.” We see the result, but we don’t know how the AI made the decision. This is where Explainable AI (XAI) becomes important.

What is Explainable AI?

Explainable AI means AI systems that can explain their decisions in a way humans can understand.

Instead of giving only an output, XAI also tells why and how that output was produced.

Why is Explainable AI Important?

Explainable AI builds trust between humans and machines. When users understand AI decisions, they feel more confident using the system.

- Improves transparency
- Builds user trust
- Helps detect errors and bias
- Supports ethical AI use

Applications of Explainable AI

- Healthcare – Doctors can understand AI-based diagnosis results
- Banking – Clear explanation for loan approvals or rejections
- Education – Personalized learning with understandable feedback
- Law and Security – Transparent decision-making

Challenges of Explainable AI

- Complex AI models are hard to explain
- Balancing accuracy and explanation is difficult
- Lack of standard explanation methods

The Future of Explainable AI

As AI continues to grow, Explainable AI will become more important. It helps ensure fairness, accountability, and responsible use of technology.

ANITHA. G

2025IT07

EXPLAINABLE AI

Introduction

Artificial Intelligence (AI) has rapidly transformed the way modern systems function, influencing everyday life through applications such as online recommendations, medical diagnosis, fraud detection, smart assistants, and autonomous vehicles. AI systems analyze large amounts of data and make decisions faster and more accurately than humans in many cases. However, most advanced AI models, especially machine learning and deep learning models, operate as complex systems where the internal decision-making process is not visible to users. This lack of clarity often makes AI systems appear as “black boxes.”

The black-box nature of AI raises serious concerns related to trust, transparency, fairness, and accountability. When users cannot understand how an AI system arrives at a particular decision, it becomes difficult to rely on it, especially in critical domains such as healthcare, banking, law, and governance. To overcome these challenges, the concept of Explainable Artificial Intelligence (XAI) has emerged. Explainable AI aims to make AI systems more transparent by providing clear explanations of how decisions are made, enabling humans to interpret, trust, and effectively use AI technologies.

Meaning of Explainable AI (XAI)

Explainable AI refers to a set of techniques and methods that allow AI systems to explain their outputs in a way that humans can understand. Instead of only providing predictions or decisions, XAI systems also offer reasoning behind those decisions. This helps users understand which factors influenced the result and how the model processed the data. Explainable AI bridges the gap between complex AI models and human understanding, making AI more accessible and reliable.

Why Explainable AI is Needed

The increasing dependence on AI systems has created a strong need for explainability. When AI is used to make decisions that affect human lives, such as approving loans or diagnosing diseases, users must understand the logic behind the decision. Without explanations, errors may go unnoticed and incorrect decisions may lead to serious consequences. Explainable AI helps users verify decisions, identify mistakes, and ensure that AI systems behave as intended.

Trust and User Confidence

Trust is one of the most important factors in AI adoption. Users are more likely to trust AI systems when they understand how decisions are made. Explainable AI builds confidence by making the decision-making process visible and understandable. For example, if an AI system explains why a loan application was rejected, users can accept the outcome more easily and take corrective action if needed.

Bias Detection and Fairness

AI systems can sometimes produce biased results due to biased or incomplete training data. Explainable AI helps identify such biases by showing how different input features influence the final output. By understanding these influences, developers can correct unfair behavior and ensure equal treatment for all users. This makes XAI an essential tool for ethical AI development.

Applications of Explainable AI

Explainable AI is widely applied in healthcare, finance, education, autonomous systems, and cybersecurity. In healthcare, XAI helps doctors understand AI-based diagnoses. In finance, it explains credit scoring and fraud detection decisions. In education, XAI supports personalized learning systems by explaining student performance predictions. These applications show the growing importance of explainability in real-world AI systems.

Techniques Used in Explainable AI

Several techniques are used in Explainable AI to make models understandable. These include feature importance methods, decision trees, rule-based systems, and visualization techniques. Some methods provide global explanations for the entire model, while others explain individual predictions. These techniques simplify complex models and help users interpret results effectively.

Advantages of Explainable AI

Explainable AI offers many benefits, including improved trust, better decision-making, enhanced model performance, and ethical AI usage. It also helps organizations comply with legal and regulatory requirements. By making AI transparent, XAI supports safer and more responsible adoption of artificial intelligence.

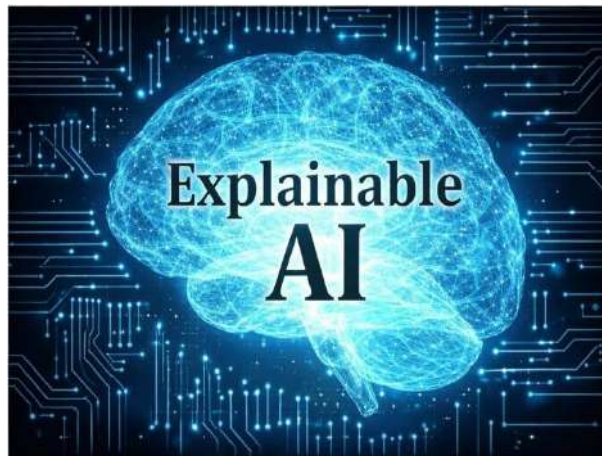
Conclusion

Explainable Artificial Intelligence plays a vital role in ensuring that AI systems are transparent, trustworthy, and ethical. As AI continues to influence critical aspects of human life, the ability to understand and explain AI decisions becomes increasingly important.

Explainable AI not only builds trust between humans and machines but also helps detect bias, improve accountability, and support responsible innovation. In the future, Explainable AI will be a key factor in creating human-centered AI systems that are reliable, fair, and beneficial to society.

SRI BRINDHA. R
2023IT38

EXPLAINABLE ARTIFICIAL INTELLIGENCE (XAI)



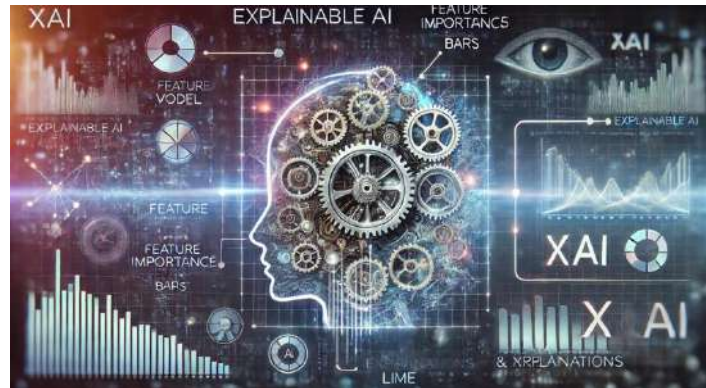
Explainable Artificial Intelligence refers to AI Systems that are designed to explain their decisions and actions in a way that humans can easily understand. Traditional AI and machine learning models, especially complex ones like deep learning often work as “black boxes” meaning they provide results without clearly explaining how those results were obtained. The main goal of XAI is to help users understand why an AI system made an particular decision.

This is especially important in critical areas such as healthcare, finance, education, law and autonomous systems, where decisions can have a significant impact on human lives. For example, in healthcare doctors need to understand why an AI model predicts a disease and in banking, customers should know why a loan application was approved or rejected. Explainable AI improves trust and confidence in AI systems. When users can see the reasoning behind an AI's output, they are more likely to accept and rely on it. It also helps developers and researchers detect errors, biases or unfair behavior in models. By understanding how input features influence the output developers can improve the model accuracy and fairness. There are different approaches used in XAI. Some models are inherently interpretable, such as decision trees, rule based systems, and linear regression models, which are easy to understand by nature. Other approaches use post hoc explanation methods to explain complex methods after they make predictions. Common techniques include feature importance visualization methods and example-based explanations, which show how different inputs affects the final decision. In addition XAI plays an important role in meeting legal and ethical requirements. Many regulations emphasize transparency and accountability in automated decision making systems. Explainable AI help organizations comply with these regulations by providing clear explanations of AI decisions.

In conclusions, explainable artificial intelligence is an important advancement in the field of AI that focuses on transparency, trust and accountability. By making AI systems easier to understand, XAI ensures that artificial intelligence can be used responsibly and effectively in real world applications.

HARITHAA. S
2023IT14

EXPLAINABLE AI



Artificial Intelligence (AI) has moved far beyond being a futuristic concept and is now deeply embedded in everyday life. From voice assistants and recommendation systems to medical diagnosis and financial forecasting, AI systems support decisions that affect individuals, businesses, and governments. While these systems offer efficiency and accuracy, their increasing complexity has created a serious concern humans often do not understand how AI reaches its conclusions. This lack of transparency can reduce trust and raise ethical questions. To overcome this challenge, Explainable Artificial Intelligence (XAI) has emerged as an important solution.

Explainable AI focuses on making the decision-making process of AI systems clear and understandable to humans. Many modern AI models, especially those based on deep learning, operate as “black boxes,” where inputs and outputs are visible, but the reasoning in between remains hidden. Although such models can deliver highly accurate results, their opacity becomes risky in sensitive fields such as healthcare, finance, and criminal justice. Explainable AI addresses this problem by providing insights into how models evaluate data and generate outcomes.

Several techniques are used to explain AI decisions. Feature importance methods identify which input factors most strongly influence a model’s prediction. Decision-rule explanations describe the logical steps followed by the system, while counterfactual explanations show how small changes in input data could lead to different outcomes. These approaches help users understand not only what decision was made, but also why it was made, thereby improving confidence in AI systems.

The importance of explainability lies mainly in building trust. Professionals such as doctors, bankers, and judges must understand the reasoning behind AI recommendations before relying on them. Without clear explanations, even accurate systems may be rejected or misused. In addition, governments across the world are introducing regulations that demand transparency in automated decision-making. Laws such as the General Data Protection Regulation (GDPR) give individuals the right to know how AI systems affect them. Explainable AI helps organizations comply with such legal and ethical requirements.

Explainability also plays a key role in detecting bias and ensuring fairness. By revealing how decisions are made, XAI allows developers and policymakers to identify and correct unfair patterns. Furthermore, understanding model behaviour helps improve system performance by identifying errors caused by poor data quality or design flaws.

Despite its advantages, Explainable AI faces several challenges. There is often a trade-off between model accuracy and interpretability, as highly complex models are harder to explain. Designing explanations that suit both technical and non-technical users is another difficulty. In real-time systems, generating explanations quickly can also be challenging. These issues highlight the need for careful and responsible AI design.

Explainable AI is already being applied in many critical areas. In healthcare, it helps doctors validate AI-assisted diagnoses and treatment plans. In finance, it ensures transparency in credit scoring and fraud detection systems. Autonomous vehicles rely on explainability to justify safety-critical decisions such as braking or route changes. As AI becomes more deeply integrated into society, the demand for transparency will continue to grow. Future developments in Explainable AI may include standardized explanation frameworks, interactive explanation systems, and AI models designed with explainability as a core feature from the beginning.

KAVYA. S
2023IT16

EXPLAINABLE AI

Artificial Intelligence is now used in many areas such as healthcare, banking, education, and business. Most AI systems work like a black box, where we can see the result but do not clearly understand how the decision was made. This is where Explainable AI becomes important.

Explainable AI, also called XAI, is a type of artificial intelligence that explains how and why a system gives a particular output. Instead of just showing the final answer, it also shows the reasons behind the decision. This helps people to trust AI systems and use them confidently.

In healthcare, Explainable AI helps doctors understand why an AI system predicts a disease. When doctors know the reasons, they can verify the result and make better treatment decisions. This reduces the risk of mistakes and improves patient safety.

In banking and finance, Explainable AI is used to justify decisions like loan approvals or rejections. If a customer asks why their loan was rejected, the system can provide clear reasons. This improves transparency and fairness in financial services.

Explainable AI is also useful in education and business. Teachers can understand how AI evaluates student performance, and companies can know why AI suggests certain business strategies. This helps in making better and more responsible decisions.

Even though Explainable AI is very useful, it is not easy to design. Developers must balance accuracy and explainability. Still, as AI continues to grow, Explainable AI will play a major role in building trustworthy and responsible technology.

In conclusion, Explainable AI helps humans understand and trust artificial intelligence. By making AI decisions clear and transparent, it ensures that technology is used safely, fairly, and effectively in real life.

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2023IT37

EXPLAINABLE AI



Explainable AI (XAI) is a set of processes and methods that makes the decisions and outputs of artificial intelligence (AI) systems understandable to human users. The main goal of XAI is to transform complex "black box" models—whose internal workings are opaque—into transparent systems where the reasoning behind a decision can be interpreted and trusted.

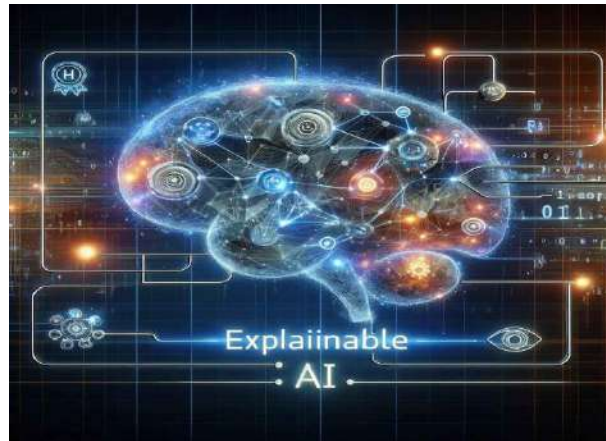
Explainable AI (XAI) is used primarily to ensure transparency, accountability, and trust in AI systems by making their decisions understandable to humans. This is particularly critical in high-risk industries where AI decisions have significant, real-world impacts on people's lives.

Explainable AI (XAI) refers to a set of techniques and processes that help you understand the rationale behind the output of a machine learning algorithm. With XAI, you can improve and debug your models, look to meet regulatory requirements, and have more trust in your AI models' decisions and predictions.

By providing clear insights into how AI models arrive at their conclusions, XAI enables stakeholders to validate and trust AI-driven decisions, which is critical in sectors such as finance, healthcare, and autonomous systems where decisions have significant impact.

Real-World Examples:

- **Autonomous Systems:** In self-driving cars, XAI can explain why a vehicle braked suddenly (e.g., "braking for a pedestrian crossing the road"), which is essential for ensuring safety, debugging, and public acceptance of autonomous technology.
- **Healthcare:** Physicians use XAI to understand the factors behind an AI-driven diagnosis (e.g., highlighting specific regions in a medical image that indicate disease) to validate the recommendation before determining a treatment plan.



Benefits:

- **Better decision-making** by understanding how to influence predicted outcomes. In the XAI example below, your predictive model has generated likely outcomes regarding customer churn based on your data. With XAI, you also get interpretable and transparent explanations for the decisions made by your AI analytics models. In this case, you see prediction-influencer data to explain these outcomes at the record-level. This helps you know how to influence the predicted outcomes. This example shows how the SHAP explainability tool (explained below) tells you that the top 6 features of your product account for 78% of influence on customer churn. You can use this insight to make changes to your product or service and reduce churn.
- **Raise trust and reduce bias in your AI systems** by being able to check models for fairness and accuracy. XAI explanations show the patterns your model found in your data. This helps your MLOps team (machine learning operations team) trace any errors and evaluate for bias and data integrity.
- **Increase adoption of AI systems** as your organization, customers, and partners gain more understanding of and trust in your ML and AutoML systems. Your AI models can then power your predictive, prescriptive, and augmented analytics systems.
- **Operationalize AI with trust and confidence** Build trust in production AI. Rapidly bring your AI models to production. Ensure interpretability and explainability of AI models. Simplify the process of model evaluation while increasing model transparency and traceability.

- **Improves Decision Making** Explainable AI provides human users with relevant context and the rationale behind AI recommendations, empowering them to make more informed decisions rather than relying solely on "black box" outputs.
- **Fosters Human-AI Collaboration** When humans can understand the reasoning of an AI partner, it facilitates better collaboration, allowing domain experts (e.g., doctors, financial analysts) to provide valuable feedback and align the AI with real-world constraints.

**FARRA. Y
2024IT11**

EXPLAINABLE AI



Explainable Artificial Intelligence (Explainable AI or XAI) refers to a set of methods and principles that make the decisions, predictions, and behaviours of AI systems understandable to humans. As AI models, especially complex ones like deep neural networks, are increasingly used in critical domains such as healthcare, finance, education, transportation, and criminal justice, the need for transparency and interpretability has become essential. Traditional “black-box” AI systems can achieve high accuracy but often fail to provide clear reasoning for their outputs, which can reduce trust, hinder accountability, and create ethical and legal concerns. Explainable AI addresses these challenges by enabling users, developers, and stakeholders to understand how an AI system arrives at a particular decision, which features influenced the outcome, and whether the system behaves fairly and reliably.

XAI techniques include model-specific approaches, such as decision trees and rule-based systems that are inherently interpretable, and post-hoc methods like feature importance scores, saliency maps, LIME, and SHAP, which explain complex models after they have made predictions. By providing insights into model XAI helps identify biases in data, detect errors, and improve model performance. This is especially important when AI systems affect human lives, such as medical diagnoses or loan approvals, where users must be able to justify and challenge decisions. Furthermore, Explainable AI supports regulatory compliance, as many laws and policies increasingly require transparency and the right to explanation in automated decision-making systems.

From an educational and organizational perspective, XAI also improves collaboration between humans and AI by making systems easier to understand and use effectively. However, achieving explainability involves trade-offs, as highly interpretable models may sometimes be less accurate than complex ones, and explanations themselves can be oversimplified or misleading if not carefully designed. Despite these challenges, Explainable AI is widely seen as a key component of responsible and trustworthy AI development. By balancing accuracy, transparency, and usability, XAI helps ensure that AI systems are not only powerful but also ethical, fair, and aligned with human values, making it a crucial area of research and application in modern artificial intelligence.

HHASHINI SRI. V
2024IT19

EXPLAINABLE AI

Explainable Artificial Intelligence (XAI) refers to a set of methods and approaches designed to make the decisions and predictions of AI systems understandable to humans. As AI technologies increasingly influence critical domains such as healthcare, finance, education, transportation, and criminal justice, the need for transparency has become essential. Traditional AI models, especially complex deep learning systems, often operate as “black boxes,” producing outputs without clear explanations of how those results were achieved. This lack of interpretability can lead to mistrust, ethical concerns, and difficulties in identifying errors or biases.

Explainable AI addresses these challenges by providing insights into how data is processed, which features are most influential, and why a specific decision was made. By

doing so, XAI helps users, developers, and stakeholders better understand, evaluate, and trust AI systems. In modern trends, explainable AI is closely tied to responsible and ethical AI development, as governments and regulatory bodies increasingly demand accountability and transparency in automated decision-making. For example, regulations in various regions emphasize the right to explanation when AI systems affect individuals' lives, such as loan approvals or medical diagnoses. Beyond compliance, XAI improves system performance by enabling developers to detect biases, debug models, and refine algorithms more effectively. It also supports collaboration between humans and AI by allowing domain experts to validate AI recommendations rather than blindly accepting them.

In healthcare, explainable AI can show why a model predicts a certain disease, helping doctors make informed decisions and increasing patient confidence. In finance, it helps institutions justify credit decisions and manage risks responsibly. Moreover, explainable AI promotes fairness by revealing hidden patterns that may disadvantage certain groups, enabling corrective actions. As AI continues to evolve, the focus is shifting from building systems that are merely accurate to those that are also transparent, interpretable, and aligned with human values. Explainable AI therefore represents a crucial step toward creating AI systems that are not only powerful but also trustworthy, ethical, and socially acceptable.

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SKILLS VS CERTIFICATE

SKILLS VS CERTIFICATION: WHAT DO EMPLOYERS VALUE MORE?

In today's fast-changing job market, students often face a common question: Should I focus more on skills or certifications? With the rise of online courses, technical platforms, and competitive hiring, employers are no longer impressed by certificates alone. Instead, they look for candidates who can actually perform the job. This has shifted the focus strongly toward practical skills, though certifications still play an important supporting role.

Skills refer to a person's ability to apply knowledge in real-world situations. For example, a student may have strong coding skills, communication ability, problem-solving capacity, or teamwork experience. Employers value these because skills directly affect productivity. A skilled employee requires less training, adapts quickly, and contributes effectively from the beginning. During interviews, recruiters often test skills through practical tasks, projects, or scenario-based questions rather than asking only about qualifications.

Certifications, on the other hand, act as proof of learning. They show that a candidate has completed a course or met a certain standard. Certifications are especially useful for freshers because they help validate knowledge and show seriousness toward a career path. In some industries like cloud computing, cybersecurity, finance, or healthcare, certifications are even mandatory. However, many employers now see certificates as an *entry point*, not a guarantee of competence.

The real value lies in the combination of skills and certifications. A certification without skill is just paper, while skill without proof may go unnoticed in the screening stage. Employers prefer candidates who can demonstrate skills through internships, projects, hackathons, portfolios, or real-time experience—supported by relevant certifications.

What Employers Really Look For

- Ability to apply knowledge, not just memorize concepts
- Hands-on experience through projects or internships
- Strong communication and problem-solving skills
- Willingness to learn and adapt continuously
- Certifications that are relevant and up to date

Skills Vs Certification: Comparison

Aspect	Skills	Certifications
Practical value	Very high	Moderate
Real-world application	Direct	Indirect
Interview importance	Tested deeply	Used for screening
Long-term growth	Essential	Supportive

Conclusion

Employers today value skills more than certifications, but they do not ignore certifications completely. Skills decide performance, while certifications support credibility. For students, the smartest approach is to build strong practical skills and back them up with meaningful certifications. This balanced combination increases employability and prepares students for long-term career success.

“CERTIFICATES MAY OPEN THE DOOR, BUT SKILLS DECIDE HOW FAR YOU GO”

ASHWINI. S
2023IT06

SKILLS VS CERTIFICATES: WHAT DO EMPLOYERS VALUE MORE?

Abstract

In the modern professional landscape, the debate between the importance of skills and certificates has gained significant attention. Skills represent practical abilities acquired through experience and continuous learning, while certificates provide formal recognition of knowledge and qualifications. This article explores the concept of skills and certificates by examining their features, applications, advantages, and disadvantages. It highlights how both contribute to career development in different ways and emphasizes the need for a balanced approach to achieve long-term professional success.

Introduction

In today's competitive professional environment, the importance of skills and certificates has increased significantly. While certificates validate formal learning and academic achievement, skills demonstrate the practical ability to apply knowledge effectively. Both play a vital role in career development, but their value differs depending on real-world applications and professional expectations.

What is it?

Skills:

Practical abilities and expertise developed through experience, practice, and learning. They enable individuals to perform tasks efficiently, solve problems, and adapt to changing situations. Examples in IT include programming, database management, networking, and cybersecurity.



Certificates:

Official documents issued by recognized institutions after completion of courses or training. They validate knowledge in specific fields like cloud computing, software development, or ethical hacking and provide formal recognition of one's qualification.

Features

Skills:

- Practice-oriented and performance-based
- Focus on real-world applications

- Continuously improved through learning
- Adaptable to changing technologies

Certificates:

- Provide formal recognition
- Issued by recognized institutions
- Standardized and easy to verify
- Fulfill academic/professional requirements



Applications

Skills:

- Efficient execution of job responsibilities
- Solving technical and real-world problems
- Increasing productivity and performance
- Supporting innovation and professional growth

Certificates:

- Strengthening resumes and professional profiles
- Shortlisting during recruitment
- Eligibility for higher studies or specialized roles
- Establishing credibility in competitive fields

Advantages & Disadvantages

Advantages of Skills:

- Highly valued by employers
- Support long-term career growth
- Encourage creativity and independent thinking
- Adaptable to new technologies

Disadvantages of Skills:

- Difficult to formally document
- Require continuous effort
- May be overlooked without proper presentation

Advantages of Certificates:

- Proof of qualification
- Increase chances of shortlisting
- Provide structured learning paths
- Build initial trust with employers

Disadvantages of Certificates:

- May not reflect practical expertise
- Can become outdated
- Over-reliance may reduce hands-on learning

Conclusion

Both skills and certificates are essential for career success. Skills ensure practical competence and adaptability, while certificates provide formal recognition and credibility. A balanced combination of hands-on skills and relevant certifications creates a strong foundation for professional growth and long-term success.

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SKILLS VS CERTIFICATION: WHAT DO EMPLOYERS VALUE MORE?

Power in practice or Paper on proof

Certification:

- Certifications prove you've learned structured material, acting as an “entry pass” to opportunities.
- It is a formal recognition that you have completed a course or training and met a set standard.



Skills:

- Skills demonstrate your practical ability to apply that knowledge and solve real-world problems, making you valuable and employable.
- It is a targeted evaluation designed to measure how well you can apply your knowledge in real situations.



Employer View:

- Skills are what employers hire for.
- But certifications help get you in the door for the interview.

Employers today are moving beyond paper qualifications. They want candidates who can solve problems, adapt quickly, and contribute from day one. A resume filled with certifications looks impressive, but without practical application, it often falls short.

Skills are demonstrated through projects, internships, portfolios, and hands-on work. They show how you think, how you learn, and how you apply knowledge in real situations.

“Certificates may open doors, but skills keep you inside.”

This does not mean certifications are useless. They provide structure, credibility, and foundational knowledge. When combined with strong skills, they become powerful career boosters.

Different between Certification and Skills:



	Certification	Skills
What they are:	Proof of completing a course, passing an exam, or meeting a standard	Proven abilities and proficiencies to perform tasks, solve problems, and adapt
Purpose:	Validate theoretical knowledge, provide structure, and meet basic requirements to get noticed by recruiters.	Show competence, deliver value, and handle real-life situations and uncertainties.

Proof	Certificates prove participation.	Skills prove competence <i>and</i> impact.
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SKILLS VS CERTIFICATION: WHAT DO EMPLOYERS VALUE MORE?

Introduction:

Skills are the learned abilities and expertise that allow you to perform a job or task well. They are what you can actually do in a professional setting.

Certifications are official credentials or documents from an authoritative organization that provide proof you have met specific, standardized criteria for a skill, knowledge area, or profession.

What Are Skills?

Skills are learned or innate abilities, knowledge, and expertise to perform specific tasks effectively, acquired through education, training, and experience, crucial for job performance and personal growth, categorized broadly into hard (technical) and soft (interpersonal).

What are Certification?

Certification is an official document or credential confirming someone (person, product, system) meets specific standards or competencies, usually after an independent assessment like an exam or audit, proving expertise or quality in a particular field, often requiring renewal through ongoing education.

Difference Between Skills and Certification?

Skills are what you can do (practical ability), while a certificate is *proof* you've learned something specific, often from a course or exam, validating competence in that area, with skills being about application and certificates about structured knowledge, though a good certificate proves a skill. Skills show real-world capability and problem-solving, whereas certificates provide structured learning and direction, acting as tangible evidence for employers that you meet a recognized standard, making the combination of both ideal for career growth.

Resume & Interview Impact

The resume gets you the interview, acting as a concise sales pitch highlighting skills, while the interview brings that resume to life, allowing you to demonstrate personality, explain achievements in detail, and prove you're the right fit, with alignment between the two creating a powerful, trustworthy narrative for hiring managers.

Conclusion:

Skills and certifications are crucial for career success, acting together boost your professional profile. **Skills** are your practical abilities and experience in solving real-world problems, while certifications are formal proof of your knowledge and dedication to a specific field.

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SKILLS VS CERTIFICATION

Skill:

Skill is something your good at doing like playing a sport, coding, or drawing.

Certification:

Certification Is an official recognition of your skills or expertise in a particular area.

Difference Between Skills vs Certification:

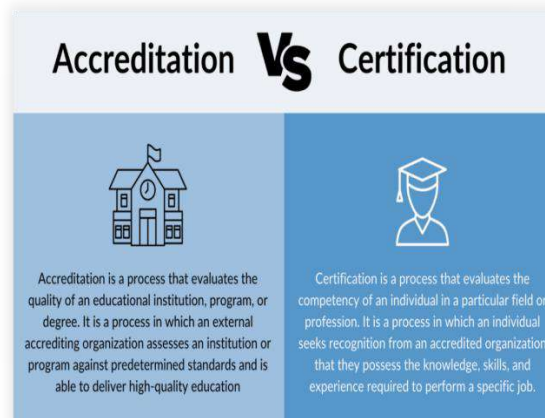
Skills	Certification
Gained through practice and experience	Gained by passing and exam/course
Shows real ability	Shows formal recognition
Improves job performance	Helps in shortlisting credibility
Measured by projects, results	Measured by certificates validity

Which is more important?

- Skills – long-term career growth
- Certification – helps to get interview calls

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SKILLS VS CERTIFICATION: WHAT DO EMPLOYERS VALUE MORE?



Employers often value skills more than certifications because skills show what you can actually do on the job, while certifications prove you've studied or passed a test. For example, imagine Ravi, who applied for a software developer role. He didn't have a fancy certification in programming, but he had built several real-world apps, contributed to open-source projects, and could demonstrate his coding ability during the interview. Another candidate had multiple certificates but struggled to solve practical problems. The company chose Ravi because his skills directly translated into results, showing that while certifications can open doors, it's the ability to apply knowledge that truly wins employers over.

Practical Application Matters: Employers often prioritize skills because they show what you can actually do in real-world situations.

Certifications Build Credibility: Certifications demonstrate commitment, discipline, and verified knowledge, which can help you get noticed in competitive fields.

Industry Differences: In fields like healthcare, aviation, or accounting, certifications are mandatory. In creative or tech roles, skills often outweigh certificates.

Hiring Decisions: Employers may use certifications as a filter to shortlist candidates, but final decisions usually hinge on demonstrated skills.

Balanced Approach Wins: The strongest candidates combine both—using certifications to open doors and skills to prove they can deliver results.

Comparison about Skills and Certifications:

Aspect	Skills	Certifications
Definition	Practical abilities you can demonstrate and apply on the job	Formal proof you've completed training or passed an exam
Employer Value	Shows real-world capability and problem-solving	Signals commitment, credibility, and baseline knowledge
Assessment	Tested through interviews, portfolios, or trial tasks	Verified by institutions or governing bodies
Longevity	Stays relevant if continuously practiced and updated	Can expire or become outdated if industry standards change
Example	Ravi built apps and solved coding challenges during interviews	Another candidate showed multiple IT certificates but struggled with hands-on tasks
Hiring Impact	Often decisive when employers need immediate results	Helpful for getting noticed or meeting job requirements

Real Life Example:

Maria wanted to work as a graphic designer. She had no formal certification in design, but she had built a strong portfolio by freelancing, creating logos for local businesses, and designing social media campaigns. Another applicant had a certificate from a design course but very few real projects to show. During the interview, Maria's portfolio impressed the hiring manager because it proved she could deliver creative results under real deadlines. The certificate helped the other candidate get considered, but Maria's skills ultimately won her the job.

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SKILLS VS CERTIFICATES FOR IT JOBS

What are Skills?

- Skills are the abilities a person has to do a task practically and effectively.
- In IT, skills include programming, problem-solving, debugging, using software tools, and working on real projects.

What are Certificates?

- Certificates are official documents given after completing a course, training, or exam.
- They show that a person has learned the theory or completed a structured program.

Skills are most Important than Certificate

In the IT industry, both skills and certificates are important. However, practical skills play a more crucial role than certificates in getting a job and performing well at work.

Why Skills are More Important than Certificates?

1. Practical Knowledge

- Skills show that a person can actually do the work.
- IT jobs require hands-on experience in coding, debugging, and problem-solving.

2. Real-World Problem Solving

- Skilled candidates can solve real project problems.
- Companies prefer employees who can handle challenges independently.

3. Performance in Interviews

- Technical interviews focus more on skills than certificates.
- Coding tests, live tasks, and projects check actual ability.

4. Adaptability to New Technologies

- Skilled people can learn new tools and languages quickly.
- IT technology changes fast, so learning ability matters.

5. Productivity at Work

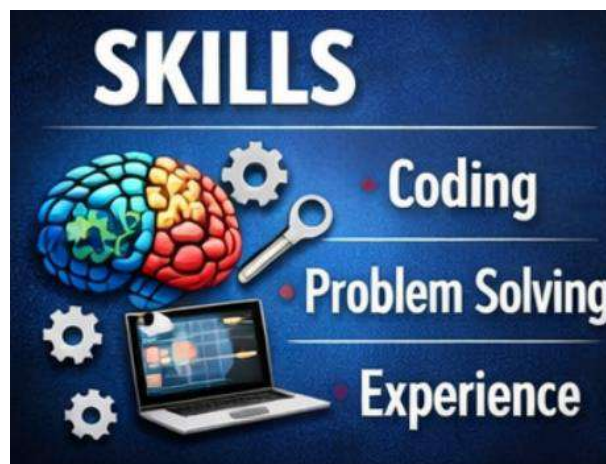
- Employees with strong skills work efficiently from day one.
- Less training is required for skilled candidates.

Example Skills

- Programming (Python, Java, C++)
- Web development
- Debugging and problem-solving
- Database handling
- Communication and teamwork

Importance of Skills

- Skills show what you can actually do
- Companies prefer hands-on experience
- Helps in real-time project work
- Skills can replace certificates in many cases
- Required for job performance and growth



Role of Certificates in IT Jobs

Proof of Learning

- Certificates show that a person has completed a course.
- They help beginners enter the IT field.

Resume Value

- Certificates add value to a resume.
- They help in shortlisting candidates.

Theoretical Knowledge

- Certificates provide basic concepts and structured learning.



Conclusion

- Certificates help in learning and proving education, but skills decide job selection, performance, and career growth.
- Therefore, for IT jobs, skills are the most important factor, and certificates act as supporting proof.
- For IT jobs **Skill is most important than certificate.**

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TECHNOLOGY AND GADGET REVIEW

NOTHING PHONE 3A



First Feel and Design

When I first held the phone, it felt light and comfortable in my hand. The back of the phone looks very different because you can see some of the internal design and the light strips. At first, I thought the lights were just for show, but they actually turn on for notifications and charging. It felt strange in the beginning, but after a few days, I got used to it.

People around me noticed the phone and asked about it, which doesn't usually happen with normal phones. So in that way, it feels a little special compared to other phones that all look similar.

Screen and Watching Videos

I watch videos a lot, so the screen matters to me. The display looks clear and bright, and watching movies or reels feels nice. The scrolling feels smooth, especially on social media. Even outside, the screen is visible most of the time, though in very bright sunlight it can be a little hard to see.

Camera Experience

The camera is good for regular photos. Pictures taken in daylight look clear and natural. I used it mostly for taking photos of friends, food, and surroundings, and it did a decent job.

At night or in low light, the photos are okay but not great. They look a bit soft sometimes. It is fine for normal use, but if someone is very serious about photography, they may want a

better camera phone.

Battery Life

Battery life is one of the things I liked most. I could use the phone for a full day without worrying too much about charging. Even with internet usage, videos, and calls, the battery lasted well.

Charging is not extremely fast, but it is not slow either. It takes some time, but once it is charged, it lasts long enough for daily use.

What I Liked

What I liked most about this phone is how different it looks and how simple it feels to use. The design is unique, the phone is smooth for daily work, and the battery life is reliable. I also liked that there are not many unnecessary apps and the system feels clean.

It feels like a phone made for people who just want things to work without too much complication.

What I Didn't Like

The lights on the back are interesting, but after some time, they feel more like a decoration than something truly useful. The camera could be better in low light, and the phone is not meant for heavy gaming or very demanding apps.

Also, since the design is different, it may not be liked by everyone. Some people may prefer a more simple-looking phone.

Overall Feeling

Using the Nothing Phone 3a feels different from using a regular phone. It is not perfect, but it is comfortable for everyday use

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SAMSUNG GALAXY A34 5G



Getting Used to the Phone

I started using the Samsung Galaxy A34 5G because I wanted a phone that was reliable without being too expensive. When I first took it out of the box, it didn't look flashy, but it felt solid and well built. The phone has a simple design with a clean back and separate camera rings, which gives it a neat and modern look.

The phone is a bit bigger than some compact phones, but it didn't feel uncomfortable. After holding it for a while and putting a case on it, it felt quite natural to carry around. It doesn't try too hard to look unique, but it still feels like a well-made device.

Everyday Performance

In daily life, the phone handled most tasks without any trouble. I used it for messaging, checking social media, watching videos, and browsing the internet. Apps opened quickly, and switching between them felt smooth most of the time.

I didn't experience many slowdowns while using the phone for normal tasks. It feels like a device that focuses on stability rather than trying to be extremely powerful. For someone who mainly uses their phone for communication, media, and casual apps, it works comfortably.

Watching Content and Scrolling

One of the things I noticed quickly was the display quality. The screen is bright and colorful, which makes watching YouTube or streaming shows enjoyable. Colors look vivid, and the screen feels responsive when scrolling through apps.

When I used the phone outside during the day, the screen was still visible in most situations. It may not be the brightest display available, but it works well enough for everyday use.

Taking Photos

The camera performed nicely during the daytime. Photos looked sharp and had natural colors. I mostly used it for casual pictures like group photos, street scenes, and small moments during the day.

In lower light situations, the photos were acceptable but not exceptional. Sometimes the images looked slightly grainy, especially indoors at night. Still, for everyday pictures and social media, the camera does a reasonable job.

Battery and Charging

Battery life was one of the parts I appreciated the most. The phone easily lasted through a full day with regular use like messaging, watching videos, and browsing. I rarely felt worried about running out of power in the middle of the day.

Charging the phone takes some time, but once it reaches full battery, it stays reliable for many hours. For people who don't want to keep charging their phone repeatedly, this is a positive point.

Things That Stood Out

What stood out to me about this phone was how balanced it feels. It may not have the most powerful processor or the most advanced camera, but everything works well together. The display is pleasant to look at, the phone feels sturdy, and the battery lasts long enough for daily routines.

It feels like a practical phone made for people who just want something dependable without spending too much money.

Small Downsides

Even though the phone works well overall, there are a few small things that could be better. Sometimes the phone feels slightly heavy after holding it for a long time. The camera performance in dim lighting could also improve.

Another thing is that the phone doesn't feel particularly exciting compared to some newer designs in the market. It focuses more on reliability than on trying to stand out.

Final Thoughts

After spending time with the Samsung Galaxy A34 5G, my overall impression is that it is a steady and comfortable phone for everyday life. It doesn't try to impress with extreme features, but it performs consistently in the things most people use their phones for.

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TECHNOLOGY AND GADGET REVIEW

Introduction

The rapid growth of technology has led to the development of innovative gadgets that are changing the way people learn, travel, and interact with the digital world. New-age gadgets focus on improving user experience, efficiency, and sustainability. Among the many blooming technologies, Augmented Reality and Virtual Reality headsets and Electric Scooters stand out as modern innovations with strong real-world impact. This article reviews these two gadgets and explains their features and benefits.

1. Augmented Reality (AR) and Virtual Reality (VR) Headsets

AR and VR headsets are advanced gadgets that provide immersive digital experiences. Virtual Reality creates a fully simulated environment, while Augmented Reality overlays digital information onto the real world. These technologies are widely used in gaming, education, healthcare, and professional training.



Modern AR/VR headsets come with high-resolution displays, motion sensors, and interactive controllers that allow users to experience realistic visuals and movements. In education, they

help students understand complex concepts through virtual simulations. In healthcare and engineering, they are used for training and practice without real-world risk.

With continuous improvements in comfort, performance, and affordability, AR and VR headsets are becoming popular tools for both entertainment and learning, making them an important part of future digital innovation.

2. Electric Scooter

Electric scooters are emerging as a smart and eco-friendly transportation gadget in urban areas. Powered by rechargeable batteries, these scooters offer a convenient alternative to traditional fuel-based vehicles. They are especially popular among students and professionals for short-distance travel.



Electric scooters are easy to use, cost-effective, and environmentally friendly. They produce zero emissions and help reduce traffic congestion. Many modern models include features such as digital displays, mobile app connectivity, GPS tracking, and advanced braking systems.

As the demand for sustainable transportation increases, electric scooters are gaining popularity and contributing to greener cities and smarter mobility solutions.

In conclusion, AR/VR headsets and electric scooters represent the innovative and blooming side of modern technology. AR/VR headsets enhance learning and digital interaction, while electric scooters promote sustainable and efficient transportation. These gadgets reflect how technology is shaping a smarter, more connected, and eco-friendly future.

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INTERNSHIP JOURNEY

MY INTERNSHIP JOURNEY IN ASP.NET

Stepping into the World of ASP.NET

Internships play a crucial role in bridging the gap between academic learning and real-world experience. I had the opportunity to complete a one-month internship in ASP.NET at a startup environment, where I was introduced to practical aspects of web application development. This internship provided me with valuable exposure to industry practices and helped me strengthen my technical foundation.

Learning a New Technology

ASP.NET was a relatively new technology for me, but the learning process was both exciting and motivating. From understanding the basics of the framework to working with real-time applications, every day offered something new. The startup environment encouraged quick learning, and I was able to pick up concepts faster due to hands-on practice. This experience helped me understand how theoretical knowledge is applied in practical development scenarios.

Technical Exposure and Skill Development

During the internship, my work mainly focused on technical tasks related to ASP.NET development. I learned how web applications are structured, how backend logic works, and how different components interact within an application. The internship improved my problem-solving skills and gave me confidence in working with unfamiliar technologies. Learning through real projects made the concepts clearer and more meaningful.

Mentorship and Team Experience

One of the most positive aspects of my internship was the mentorship and team support. The team members were approachable and willing to guide me whenever I faced difficulties. Regular discussions and feedback sessions helped me understand my mistakes and improve continuously. Working in a collaborative startup environment taught me the importance of communication, teamwork, and professional behavior.

Growth Through Continuous Learning

Since ASP.NET was a new topic for me, the internship demanded consistent effort and self-learning. This pushed me to explore documentation, online resources, and practical examples on my own. As a result, I developed the habit of independent learning, which is an essential

skill for any aspiring IT professional. The experience proved that learning speed increases when curiosity and practice go hand in hand.

Key Takeaways from the Internship

This internship helped me gain technical knowledge as well as confidence in adapting to new technologies. It showed me the importance of continuous learning, teamwork, and mentorship in professional growth. The startup environment provided real exposure to how projects are handled within limited timeframes, preparing me for future challenges in the IT industry.

Conclusion

In conclusion, my one-month internship in ASP.NET was a valuable learning experience that contributed significantly to my technical and professional development. It strengthened my interest in web development and motivated me to explore more advanced technologies in the future. This internship marked an important step in my academic and career journey, proving that real learning begins when theory meets practice.

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OUR INTERNSHIP EXPERIENCE

We completed our internship at Pydun Technologies, located in Tallakulam, Madurai. The domain we chose is UI UX Design. The agenda is to build a well-functioning website independently, with the support and guidance of the assigned domain instructor. A technical training session was provided to us, and we were taught various frontend programming languages such as HTML, CSS, JavaScript, and Bootstrap. We also sought help from websites such as FreePics and Pixabay to download free images and stock videos to develop the website. The instructor taught exceptionally well, and the clear explanation of the concepts was instrumental in our website development. The internship program began on May 2 and ended on June 2. On the first day, the instructor taught us the basics of UI/UX design, including what UI and UX design are, their functionalities, the differences between UI and

UX design, and where they are implemented. Then, he taught the fundamentals of HTML and CSS, and we were introduced to Bootstrap. The concept of colors and a few topics related to digital image processing were also taught to us. We also had lab sessions, where we got the opportunity to implement these concepts with tangible illustrations. We got good exposure towards the domain, and the environment was favourable to us. I developed a website for a multi-speciality hospital, which primarily consists of a Home page, About Us page, various departments offered in the hospital, doctor profiles of highly skilled doctors with years of experience, and finally a section to book appointments for the hospital. Overall, this internship helped us gain practical knowledge in UI/UX design and improved our confidence in developing websites independently.



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INTERNSHIP JOURNEY

From Classroom Learning to Practical Experience Introduction

Internships play a vital role in shaping a student's academic and professional journey. They provide an opportunity to gain real-world exposure, understand industry expectations, and apply theoretical knowledge in a practical environment. My internship experience in May 2025, was a valuable learning phase that helped me grow both technically and personally.

This internship focused on Web Development, where I was introduced to the fundamentals of designing and developing websites. The experience not only enhanced my technical skills but also gave me confidence to explore my career path in the IT field.

Internship Duration and Overview

Domain: Web Development

Mode: Practical training and hands-on learning

The internship was well-structured and beginner-friendly, allowing me to learn step by step. Each day involved new concepts, practice sessions, and guidance from mentors.

Skills and Technologies Learned

During this internship, I gained practical knowledge in Web Development, which included:

- HTML (HyperText Markup Language): Creating the basic structure of web pages.
- CSS (Cascading Style Sheets): Styling web pages with colors, layouts, and designs.
- Basic Web Page Design: Understanding layouts, alignment, and responsiveness.
- Form Creation: Designing input forms for user interaction.
- Website Structure: Learning how different pages are linked together.

Through hands-on practice, I learned how a simple idea can be transformed into a functional web page.

Learning Experience

The internship provided a supportive learning environment where I could ask questions freely and learn from mistakes. Practical sessions helped me understand concepts more clearly than classroom theory. I learned how to debug errors, improve design, and think logically while building web pages.

Apart from technical knowledge, I also learned:

- Time management
- Discipline and punctuality

- Team interaction
- Professional communication

Challenges Faced

Initially, understanding coding syntax and design concepts was challenging. Small errors in code would affect the entire output. However, with regular practice and guidance, I slowly gained confidence. These challenges taught me patience, consistency, and problem-solving skills.

Outcomes and Benefits

By the end of the internship, I was able to:

- Design simple web pages independently
- Understand the basics of web development
- Gain confidence in using HTML and CSS
- Apply theoretical knowledge practically
- Enhance my resume with industry experience

This internship helped me realize the importance of practical exposure in building a successful career.

Conclusion

The internship conducted on the month of May 2025, was a memorable and meaningful experience. It strengthened my interest in web development and motivated me to learn more advanced technologies in the future. This journey marked an important step toward my professional growth and career development.

“Internships transform knowledge into experience and dreams into direction.”

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UNFAMILIAR AI TOOLS

GAMMA AI

Introduction

Artificial Intelligence (AI) has become an important part of today's digital world. It is used in education, business, healthcare, and communication. While popular AI tools are widely known, many unfamiliar AI tools also play a major role in improving productivity. One such tool is Gamma AI. Gamma AI helps users create documents, presentations, and web-based content easily and quickly. This article explains Gamma AI, its features, applications, advantages, limitations, and future scope.

Overview of Gamma AI

Gamma AI is an AI-powered content creation tool designed to generate structured and visually appealing content. Unlike traditional tools where users must manually type content and design layouts, Gamma AI performs both tasks automatically.

Gamma AI is commonly used by:

- Students
- Teachers
- Business professionals
- Content creators

Features of Gamma AI

1. AI-Based Content Generation: Generates structured content with headings and explanations.
2. Automatic Design and Formatting: Applies clean and professional layouts automatically.
3. Multiple Content Formats: Supports documents, presentations, and web-style pages.
4. Easy Editing: Allows users to edit text, add images, and rearrange sections.

Working Mechanism of Gamma AI

The working process includes:

- Entering a topic or description
- AI analysis of the input

- Automatic content and layout generation
- Final review and editing by the user

Applications of Gamma AI

1. Educational Applications: Assignments, project reports, and presentations
2. Business Applications: Reports, proposals, and professional presentations
3. Content Creation: Blogs, websites, and informative presentations

Advantages of Gamma AI

- Saves time and effort
- Produces professional-quality output
- Requires minimal technical knowledge
- Increases productivity

Limitations of Gamma AI

- Requires internet connectivity
- Limited advanced customization options
- AI-generated content needs review

Future Scope of Gamma AI

With continuous improvements in artificial intelligence, Gamma AI may offer enhanced customization, better accuracy, and support for multiple languages. It is expected to become an essential tool in education and business sectors.

Conclusion

Gamma AI is an effective and intelligent AI tool that simplifies content creation. It helps users create documents, presentations, and web content with ease. Although it has some limitations, its advantages make it highly useful in academic and professional fields.

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UNFAMILIAR AI TOOLS



Artificial Intelligence is not only about popular tools that everyone knows. There are many unfamiliar AI tools that work silently in the background and support different industries. These tools are not widely discussed among students, but they are very useful in real-world applications.

One example of an unfamiliar AI tool is AutoML platforms. These tools automatically create machine learning models by selecting the best algorithm and parameters. This helps people who do not have strong coding knowledge to still use AI for data analysis and prediction. Another important but less-known AI tool is medical diagnostic AI software. These systems analyze X-rays, MRI scans, and lab reports to help doctors identify diseases at an early stage. This improves treatment accuracy and saves time. In education, adaptive learning tools use AI to understand how a student learns. Based on performance, they provide easy or advanced lessons accordingly. This personal learning approach helps students improve without pressure. AI automation tools are also unfamiliar to many people. These tools can handle routine office tasks such as sorting emails, scheduling meetings, and responding to customer queries. This allows employees to focus on more creative and important work. Though these tools are not popular among the general public, they are shaping the future of technology. As awareness increases, more students and professionals will start using these unfamiliar AI tools to work smarter and achieve better results.

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UNFAMILIAR AI TOOLS

Runway ML

It is one of the most powerful and innovative AI tools transforming the world of digital creativity. It is mainly designed for generating, editing, and enhancing videos and images through artificial intelligence. The platform uses deep learning and computer vision models that allow users to perform advanced visual tasks without the need for traditional video editing skills. One of its most remarkable features is text-to-video generation, where users can type a short description, and the system automatically creates a video that matches the scene. RunwayML also supports intelligent background removal, video inpainting, and object tracking — making it a one-stop solution for video production. What makes this tool special is its simplicity: everything runs directly in a web browser, which means students, filmmakers, and designers can create high-quality visual projects quickly and easily. In a college setting, RunwayML can be used to make shortfilms, digital art, or magazine visuals, proving how artificial intelligence is revolutionizing the creative process.

Galileo AI

It is another emerging AI platform that focuses on user-interface design and creative layout generation. It allows users to generate professional-looking website designs simply by describing their ideas in plain language. For example, a student could type, “a modern login screen for a travel app,” and Galileo AI would instantly produce a complete UI layout with colors, text boxes, and icons. This tool demonstrates how artificial intelligence can accelerate design thinking by converting text prompts into visual prototypes within seconds. Galileo AI is built to understand design patterns and human-centered aesthetics, helping both beginners and experienced designers save time during the early stages of a project. For IT and design students, Galileo AI offers an excellent way to explore how machine learning models can interpret creativity, making it a perfect combination of technology and art. Featuring Galileo AI in a college magazine can inspire readers to think about how AI tools are reshaping not only data and automation but also the way people approach visual design.

Kittl

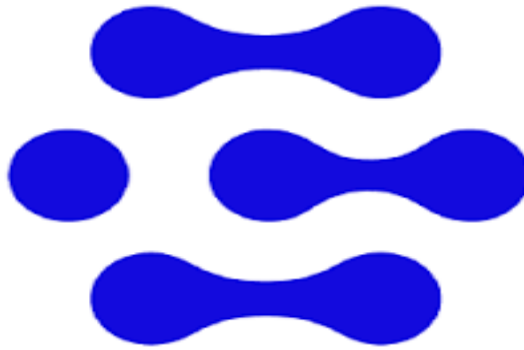
It is an AI-powered graphic design platform known for its focus on typography, illustration, and branding. It provides users with intelligent design assistance, helping them create posters, logos, and magazine covers that look professional and stylish. Unlike many other design tools, Kittl emphasizes creativity through font pairing, color matching, and artistic text effects, which makes it ideal for editorial layouts. Students working on a college magazine can use Kittl to design section headers, event posters, or aesthetic visuals that align with the magazine's theme. The AI also offers automatic suggestions for layout improvement, which teaches users basic design balance and composition principles. Kittl's interface is beginner-friendly yet powerful enough for professional use, bridging the gap between manual creativity and automated design. It serves as a great example of how artificial intelligence can support rather than replace human imagination, allowing every student to express creativity more effectively.

Eleven Labs

It is an advanced artificial intelligence tool that specializes in realistic voice generation and speech synthesis. It uses deep learning models to convert text into natural-sounding human speech with accurate tone, emotion, and clarity. Unlike traditional text-to-speech systems that sound robotic, ElevenLabs produces voices that closely resemble real human narration. This makes it extremely useful for audiobooks, podcasts, video narration, and accessibility tools. Users can also customize voice styles, accents, and emotional expressions, showing how AI can understand and reproduce human communication. For college students, ElevenLabs demonstrates the role of artificial intelligence in audio technology and digital media. In a college magazine, this tool can be featured as an example of how AI is changing the way content is narrated and consumed, especially in multimedia and inclusive education.

ANNAPOORANI. S
2023IT02

CLARIFAI AI



Introduction

In the modern digital world, vast amounts of images, videos, and text are created every second. Understanding and organizing this unstructured data is a major challenge. **Clarifai** is an advanced and relatively unfamiliar Artificial Intelligence (AI) platform that focuses on computer vision, natural language processing, and AI automation. It helps machines “see,” “understand,” and “analyze” digital content in a way similar to humans. Unlike common AI tools used for writing or chatting, Clarifai works mainly in the background, powering intelligent systems across many industries. Its ability to identify objects, recognize faces, analyze emotions, and detect patterns makes it an important yet less-known AI tool in today’s technology landscape.

Clarifai AI

Clarifai is a full-stack artificial intelligence platform that helps developers and organizations build, train, deploy, manage, and scale AI models – especially for visual, language, audio, and multimodal tasks. It supports the entire AI lifecycle, from data preparation to model serving in real-world production environments. Founded in 2013 by Matthew Zeiler, Ph.D., Clarifai began with computer vision and has since expanded to support a wide range of AI workflows for enterprises worldwide.

Advantages

1. **High Accuracy:** Clarifai uses deep learning models that provide highly accurate image, video, and text recognition results.

2. **Multi-Modal AI Support:** It can process images, videos, text, and audio, making it versatile compared to single-purpose AI tools.
3. **Custom Model Training:** Users can train AI models based on specific needs, such as identifying medical images or industrial defects.
4. **Scalability:** Clarifai can handle large volumes of data, making it suitable for enterprises and large organizations.
5. **Automation Capability:** It reduces human effort by automatically tagging, classifying, and analyzing content.
6. **Industry Flexibility:** The platform can be adapted for healthcare, security, retail, agriculture, and many other fields.

Disadvantages

1. **Complexity for Beginners:** Clarifai may be difficult to understand for non-technical users without AI or programming language.
2. **Cost Factor:** Advanced features and large-scale usage can be expensive for small organizations or individuals.
3. **Dependence on Data Quality:** Poor or biased data can affect the accuracy of AI models.
4. **Privacy Concerns:** Handling sensitive images and videos raises ethical and privacy issues.
5. **Internet Dependency:** Cloud-based processing requires stable internet connectivity.

Applications

1. **Healthcare:** Used in medical imaging to detect diseases, analyze X-rays, and support diagnosis.
2. **Security and Surveillance:** Helps in facial recognition, threat detection, and monitoring suspicious activities.
3. **Retail and E-Commerce:** Enables product recognition, visual search, and customer behavior analysis.

4. **Media and Entertainment:** Assists in content moderation, video tagging, and copyright protection.
5. **Agriculture:** Helps detect crop diseases, analyze soil images, and improve farming productivity.
6. **Manufacturing:** Used for quality inspection and defect detection in production lines.

Uses

1. **Image and Video Recognition:** Identifies objects, people, places, and actions automatically.
2. **Content Moderation:** Filters harmful, violent, or inappropriate digital content.
3. **Facial and Emotion Analysis:** Recognizes faces and interprets emotions from images or videos.
4. **Data Organization:** Automatically categorizes large collections of digital data.
5. **Decision Support Systems:** Helps organizations make informed decisions using AI-based insights.
6. **AI Research and Development:** Used by researchers to build and test intelligent AI models.

Conclusion

Clarif ai is a powerful yet unfamiliar AI tool that plays a crucial role in helping machines understand visual and textual information. Its ability to analyze complex data efficiently makes it valuable across various industries, from healthcare to security and agriculture. Although it has challenges such as cost, complexity, and privacy concerns, its advantages far outweigh its limitations. As artificial intelligence continues to grow, tools like Clarif ai will become increasingly important in shaping smarter, safer, and more efficient digital systems. Understanding such unfamiliar AI tools is essential for students and researchers preparing for a technology-driven future.

SRIYOKITHA. B
2025MSIT12

LOVABLEAI- WEBSITE BUILDER TOOLS

1. Introduction

In the modern digital age, having an online presence is essential for individuals, businesses, and organizations. Websites communicate brand messages, provide services, and connect with customers around the world. Traditionally, building a website required technical knowledge in HTML, CSS, JavaScript, or server-side coding. However, with the rise of AI-powered website builders, users with little to no coding experience can now generate full websites quickly and efficiently.

AI website builders combine design automation, natural language processing, and responsive templates to make website creation both easy and enjoyable. Among such tools, LovableAI has gained attention due to its ability to build functional applications and websites through simple chat interaction. Unlike traditional drag-and-drop builders, Lovable uses artificial intelligence to interpret user intent and generate the necessary code and visual components.

2. What Is LovableAI?

Lovable AI is an innovative platform designed to generate websites and web applications using artificial intelligence. Unlike traditional website builders that rely heavily on manual drag-and-drop interfaces, Lovable uses chat-based interaction. Users simply describe their project — including purpose, style, and features — and the AI constructs the website accordingly. In many cases, the output includes actual working code, enabling deployment or further customization.

3. Key Features of LovableAI

- **Chat-First Design Interface:** Users interact with the platform using natural language. For example, typing “Create a portfolio website with a gallery and contact form” triggers the AI to generate a corresponding layout.
- **AI-Generated Code Output:** Lovable often produces working front-end code (such as React components). This allows developers to extend the site further or deploy it as a fully functional web application.

- **Design to Code with Imports:** Users can import design files (e.g., from Figma) and have the AI convert visual designs into real websites.
- **Rapid Deployment:** Once a design is generated, the tool can help with deployment, turning a concept into a live site in a short period.

4. Advantages of Using LovableAI

- **Ease of Use:** No deep technical knowledge is needed. Describing the desired website in natural language is often sufficient.
- **Speed:** Websites can be generated within minutes rather than hours or days.
- **Design Flexibility:** Users can quickly experiment with different layouts by simply changing prompts.
- **Hybrid Use:** Advanced users can refine or extend generated outputs with traditional coding methods.

5. Limitations and Considerations

- **SEO and Content Fine-Tuning:** Automatically generated sites may require manual optimization for search engines and content quality.
- **Code Output Focus:** Because Lovable often outputs modern single-page application code (e.g., React), additional adjustments might be needed for dynamic SEO and server-side rendering.
- **Learning Curve for Developers:** While simple for basic sites, understanding and modifying advanced code output can still require coding knowledge.
- **Safety and Misuse Risks:** Like many AI platforms, Lovable and similar tools can be misused for unethical purposes (e.g., generating phishing sites), highlighting the importance of responsible use.

6. Comparison with Other AI Website Builders

- **WixADI (Artificial Design Intelligence):** Focuses on automatic template generation based on user responses. It combines AI suggestions with traditional editing tools.
- **Jimdo Dolphin:** Uses guided questions to build simple websites quickly, best suited

for users who want minimal configuration.

- **ReplitAI Web Builder:** Provides robust full-stack creation, including both frontend and backend elements, and is more code-centric.

7. Key Benefits of Using LovableAI

- **Lower Barriers to Entry:** No need for coding skills.
- **Faster Creation:** Sites can be generated in a fraction of the time compared to traditional development.
- **Iterative Design:** Users can evolve their site through prompt changes.

8. Challenges of Using LovableAI

- **Quality Variability:** AI outputs can be generic and may need manual refinement.
- **Dependence on Prompt Quality:** Better prompts produce better results; beginners may need practice.
- **SEO & Performance Optimization Needed:** AI builds may not automatically include performance best practices or SEO.

9. Conclusion

AI-powered website builders like Lovable AI are transforming how websites are created. They enable users without technical backgrounds to generate functional and visually appealing sites quickly. While tools like Lovable stand out for code-oriented generation and chat-based interfaces, others like Wix ADI or Jimdo cater to template-based design with intuitive editors. As AI continues to evolve, its role in web development will expand, making web creation faster, more accessible, and more creative. Users should choose the right tool based on their technical expertise, project needs, and long-term goals.

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2023IT43

UNFAMILIAR AI TOOLS

Artificial Intelligence is no longer a futuristic concept limited to laboratories or tech giants.

While familiar tools like ChatGPT, Midjourney, and Google Gemini dominate headlines, a quieter revolution is unfolding beneath the surface. A growing ecosystem of unfamiliar AI tools is transforming industries in subtle but powerful ways often without public attention. These tools may not trend on social media, but they are rapidly redefining productivity, creativity, decision-making, and even ethics in the digital age.

This article explores lesser known yet impactful AI tools, why they matter, and how they are shaping the next phase of human-AI collaboration.

Beyond the Spotlight: Why Unfamiliar AI Tools Matter

Most people associate AI with chatbots or image generators. However, real innovation often happens behind the scenes. Unfamiliar AI tools are typically task-specific, designed to solve narrow but critical problems with remarkable efficiency. These tools excel not by replacing humans entirely, but by augmenting human intelligence in ways that feel almost invisible.

What makes these tools significant is not popularity, but precision. They are used in healthcare diagnostics, legal analysis, supply chain optimization, education personalization, cybersecurity, and emotional analytics—areas where accuracy and context matter more than entertainment or novelty.

1. Auto ML Platforms: AI That Builds AI

One of the most underestimated AI innovations is Automated Machine Learning (AutoML).

Tools such as H2O.ai, Data Robot, and Auto-sk learn all own on experts to build sophisticated machine learning models without deep coding knowledge.

Instead of manually selecting algorithms, tuning parameters, and validating models, AutoML systems automatically test multiple approaches and deliver optimized results. This democratizes AI, enabling startups, researchers, and small organizations to use advanced analytics without large technical teams.

Why it matters: AutoML reduces dependency on scarce AI specialists and accelerates innovation cycles dramatically.

2. AI for Emotional and Behavioral Analysis

Unfamiliar to many, Affective Computing tools analyze human emotions using voice tone, facial expressions, and text patterns. Platforms like Affectiva, BeyondVerbal, and Realeyes are used in mental health screening, customer experience research, and human-computer interaction design.

These tools do not “read minds,” but they identify emotional cues that humans may overlook, especially in digital environments. In education, they help detect student disengagement. In healthcare, they support early mental health interventions.

Responsible use is critical, as emotional data is deeply personal and sensitive.

3. AI Powered Knowledge Graphs

Unlike search engines that retrieve information, knowledge graph tools understand relationships between data. Tools such as Neo4j, Diffbot, and Stardog connections between people, concepts, locations, and events.

For example, in investigative journalism, these tools help uncover hidden relationships between companies and individuals. In enterprises, they enable smarter recommendations and fraud detection.

4. Synthetic Data Generators

Data scarcity and privacy laws often limit AI development. This is where synthetic data tools like Mostly AI, Gretel.ai, and Synthesis AI come in. These tools generate realistic, artificial datasets that preserve statistical accuracy without exposing real personal data.

Synthetic data is increasingly used in finance, healthcare, and autonomous vehicle training industries where real data is expensive, risky, or ethically constrained.

5. AI Tools for Code Understanding (Not Just Code Writing)

While AI code generators are well known, tools that understand existing code bases are far less familiar. Platforms like Sourcegraph Cody, CodeQL, and DeepCode analyze massive repositories to detect vulnerabilities, logic flaws, and architectural risks.

These tools act like senior code reviewers, improving software quality and security especially in legacy systems where documentation is weak or outdated.

6. AI in Decision Intelligence

Decision Intelligence tools such as Causalens, Tellius, and Ayata go beyond predictions. They analyze why something happens, not just what will happen. By combining causal inference with machine learning, they support high stakes decisions in policy, economics, and business strategy.

This shift from predictive AI to explainable decision support is crucial in regulated and ethical environments.

Challenges and Responsible Adoption

Despite their promise, unfamiliar AI tools raise important challenges:

- Lack of awareness: Many organizations under utilize AI simply because they don't know these tools exist.
- Ethical risks: Tools analyzing behavior, emotions, or decisions must be governed carefully.
- Skill gaps: Using advanced AI still requires critical thinking, even if coding is reduced.

AI should not be treated as a magic solution, but as a collaborative system requiring human judgment, transparency, and accountability.

The Future: Invisible but Indispensable

The future of AI will not be dominated by flashy interfaces alone. Instead, it will be shaped by quiet, specialized, unfamiliar tools working behind the scenes optimizing systems, protecting data, guiding decisions, and enhancing human capabilities.

For students, professionals, and organizations, the key is not to chase trends, but to understand where AI creates real value. Familiar tools may open the door, but unfamiliar ones are building the foundation of tomorrow's intelligent world.

Conclusion

Unfamiliar AI tools represent the most meaningful evolution of artificial intelligence today. They are precise, practical, and powerful often unseen, yet deeply influential. As AI matures, success will belong to those who look beyond popular names and explore the deeper ecosystem shaping our digital future.

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2023IT25

TOME AI

Introduction

- Tome AI is an advanced artificial intelligence tool designed mainly for creating presentations and storytelling content.
- It uses AI to generate structured slides, visual layouts, and written content automatically.
- Tome AI is especially useful for students, teachers, content creators, and professionals who want to create impactful presentations with minimal effort.



What is Tome AI?

- Tome AI is an AI-powered presentation and narrative creation platform.

- Users can give a simple text prompt, and Tome AI converts it into a well-organized presentation with headings, explanations, and visuals.
- It combines content writing and design in one tool, reducing the need for manual slide creation.

Key Features of Tome AI

- One of the main features of Tome AI is automatic content generation.
- Another important feature is smart slide structuring, where the content is divided logically into sections.
- Tome AI also supports images and visual elements generated or suggested by AI, making presentations more engaging.

Uses of Tome AI

- Tome AI is widely used in education for creating class presentations and project reports.
- In business, it helps in making pitch decks and project proposals.
- Content creators use Tome AI to build visual stories, while students use it to save time during assignments and seminars.

Advantages of Tome AI

- Tome AI saves time and effort by automating content and design work. It does not require advanced technical or design skills.
- The tool improves productivity and helps users focus more on ideas rather than formatting.
- It also enhances creativity by providing structured storytelling.

Disadvantages of Tome AI

- Tome AI depends heavily on user prompts, so unclear input can lead to inaccurate content.
- It provides only basic information and is not suitable for deep or technical analysis.
- Advanced features are limited in the free version and require payment to access.

Limitations of Tome AI

- Although Tome AI is powerful, it depends heavily on user prompts.
 - If the prompt is unclear, the output may not be accurate.
 - It may also lack deep subject-specific analysis compared to human-created content.
- Internet access is required to use the tool effectively.

Conclusion

- Tome AI is a modern AI tool that simplifies presentation and content creation.
- It is an excellent choice for students and professionals who want quick and attractive results.
- With proper usage and clear prompts, Tome AI can become a valuable tool in education and professional environments.

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2025MSIT07

NOTEBOOKLM



Introduction

Artificial Intelligence tools are evolving rapidly, and many useful platforms remain unfamiliar to most users. While popular tools like chatbots and image generators get a lot of attention, lesser-known AI tools can be just as powerful. One such tool is NotebookLM, an AI-powered research and note-taking assistant developed by Google. When I first

encountered NotebookLM, I was curious but unsure how it would actually help me. After using it, I realized it offers a unique approach to learning, organizing information, and studying.

What is NotebookLM?

NotebookLM is an AI tool designed to help users understand and work with their own documents. Instead of searching the internet randomly, NotebookLM focuses on user-provided sources, such as notes, PDFs, articles, or study materials. The AI then summarizes, explains, and answers questions based only on those sources, making it especially useful for students, researchers, and writers.

Key Features of NotebookLM

One of the most impressive features of NotebookLM is its source-grounded responses. This means the AI does not make up information but relies strictly on the documents uploaded by the user. Other notable features include:

- Automatic summaries of long documents.
- Question-and-answer support based on uploaded notes.
- Clear explanations of complex topics.
- Organized notebooks for different subjects or projects.
- Citation-style references to where information came from.
- These features make NotebookLM feel more like a personal study assistant than a general AI chatbot.

Pros of Using NotebookLM

From my experience, NotebookLM has several advantages:

- It saves time by summarizing long texts quickly.
- Helps me understand difficult topics in simpler terms.
- Keeps my research focused and organized.
- Reduces confusion by sticking to trusted sources.
- Useful for exam preparation, essays, and revision.
- I found it especially helpful when studying dense material, as it allowed me to ask questions without rereading entire chapters.

Cons and Limitations

Despite its strengths, NotebookLM does have some drawbacks:

- It depends heavily on the quality of the uploaded sources.
- It cannot provide information beyond the given documents.
- New users may find it confusing at first.
- Limited creativity compared to general-purpose AI tools.
- In my case, if I uploaded poorly written notes, the answers were less helpful. This taught me that good input is essential for good output.

MY PERSONAL EXPERIENCE

When I first used NotebookLM, I was unsure how different it would be from other AI tools. Over time, I noticed it helped me stay focused and avoid distractions. Instead of jumping between websites, I could rely on one organized space. I used it to revise topics, clarify concepts I didn't understand, and even prepare outlines for writing tasks. While it didn't replace my own thinking, it supported and improved my learning process.

CONCLUSION

NotebookLM is a powerful yet unfamiliar AI tool that deserves more attention. While it may not be perfect, its ability to work directly with personal documents makes it stand out from other AI platforms. Based on my experience, it is especially useful for students and researchers who want clarity, organization, and efficiency. As AI tools continue to grow, exploring lesser-known options like NotebookLM can make learning smarter and more effective.

CHARUMATHILR

2024IT08

MEM AI



Introduction

Artificial Intelligence has changed how people store and manage information. While many AI tools are well known, some remain unfamiliar despite being highly useful. Mem AI is one such AI-powered note-taking tool that helps users organize and recall information automatically.

What Is Mem AI?

Mem AI is an intelligent note-taking and knowledge management application that uses artificial intelligence to understand context and connect related notes. Instead of relying on folders, it allows users to capture information freely while the AI handles organization. It is commonly used by students, professionals, and researchers.

Features and Capabilities

- AI-powered automatic organization of notes.
- No need for folders or manual categorization.
- Smart search using natural language.
- Automatic linking of related notes.
- Quick note capture and daily notes.
- AI-assisted recall to resurface important information.
- Useful for research, studying, and project management.

Limitation

- Initial learning curve for new users.
- Heavy dependence on AI accuracy.
- Limited manual control over note structure.
- Requires stable internet connection.
- Not suitable for users who prefer traditional folder-based systems.
- Does not replace critical thinking or analysis.

Steps to Use Mem AI

Step 1: Sign Up

1. Go to mem.ai
2. Create an account (Google sign-in is easiest)
3. Log in to Mem

Step 2: Create a Note

1. Click “New note” or just start typing
2. Write anything you want: Class notes, Ideas, Reminders, Meeting notes.
3. Your note is saved automatically

Step 3: Write Naturally

1. No folders needed
2. Just write like normal text
3. Example: Math homework due Friday
4. Science project idea: solar energy
5. Mem will organize it for you using AI.

Step 4: Use Search

1. Click the search bar
2. Type what you remember, not exact words
3. Example:
“notes about homework”
“project idea from last week”
4. Mem finds related notes using AI

Step 5: Use Mem Chat (AI Assistant)

1. Open Mem Chat
2. Ask things like:

“Summarize my notes”

“Make a to-do list from this”

“Explain this topic simply”

3. Mem will analyze your notes and respond.

Step 6: Use Collections (Optional)

1. Create a collection (like a group)
2. Add notes to it
3. Examples: School, Projects, Personal ideas.
4. This helps keep related notes together.

Step 7: Let AI Help You

1. Mem automatically:
2. Links related notes.
3. Shows helpful suggestions.
4. Brings up old notes when relevant.

Conclusion

Mem AI is an unfamiliar yet powerful AI tool that simplifies note-taking and information management. By using artificial intelligence to organize and retrieve knowledge, it helps users stay productive and focused. Despite some limitations, Mem AI offers an innovative approach to managing information in the digital age.

HARIPREETHA. K

2024IT15

KICKRESUME AI

Kickresume is an unfamiliar yet powerful AI-based resume and cover letter building tool used by students, freshers, and professionals. Unlike traditional resume creation methods, Kickresume uses artificial intelligence to automatically generate professional and well-structured resume content based on user inputs such as skills, education, and job role.

One of the major strengths of Kickresume is its ATS-friendly resume design. Many companies use Applicant Tracking Systems (ATS) to filter resumes before they reach recruiters. Kickresume ensures that resumes are formatted and worded in a way that can be

easily read and accepted by these systems.

Kickresume also supports career growth by helping users highlight their strengths effectively. With AI-powered suggestions, users can improve resume wording, avoid common mistakes, and present themselves confidently in the competitive job market.

Another advantage of Kickresume is its ease of use. Even users with no prior resume-writing experience can create high-quality resumes within minutes, making it a valuable and time-saving AI tool for modern job seekers.

Another important feature of Kickresume is its AI Resume Writer. This tool uses artificial intelligence to suggest professional sentences for work experience, skills, and achievements. It helps users present their information in a clear and impressive way. Even freshers with no work experience can create strong resumes using AI-generated content.

Overall, Kickresume is a smart and efficient AI tool that simplifies resume and cover letter creation. It saves time, improves resume quality, and increases job opportunities. Because it uses artificial intelligence for writing and formatting, Kickresume is considered an unfamiliar but powerful AI tool for many job seekers.



NAGALAKSHMI. K
2024MSIT02

JOBRIGHT AI

Introduction

Jobright AI is an artificial intelligence based career guidance and job recommendation tool. It is designed to help users, especially students and job seekers, find suitable job opportunities based on their skills, education, and interests.

Instead of searching for jobs manually on different websites, Jobright AI uses AI to analyze user profiles and suggest relevant career paths and job roles. This makes the job search process easier, faster, and more personalized.



What is Jobright AI?

Jobright AI is an AI-powered career assistant platform. Users create a profile by entering details such as their education, skills, experience, and career preferences.

Based on this information, Jobright AI recommends:

- Suitable job roles
- Career paths
- Skill requirements
- Learning suggestions

It acts as a bridge between a user's abilities and the job market.

How Jobright AI Works

First, the user creates an account and fills in their profile information such as qualification, technical skills, and career interests. Jobright AI then analyzes this data using artificial intelligence.

It compares the user profile with job market data and existing job role requirements.

The system identifies:

- Matching job roles
- Required skills for those roles
- Gaps between current skills and job requirements

Finally, Jobright AI provides personalized job and career recommendations.

Key Features of Jobright AI

One of the main features of Jobright AI is personalized job matching. It suggests jobs based on individual profiles rather than general search results.

Another important feature is career path guidance. The tool shows possible career directions and growth options for the user. Jobright AI also provides skill improvement suggestions. It tells users which skills they need to learn or improve to reach their desired job role.

The platform may also include resume analysis and job tracking features, which help users manage their job applications efficiently.

Uses of Jobright AI

- Jobright AI is useful for students who are unsure about which career path to choose after graduation.
- It helps freshers understand what jobs match their qualifications and interests.
- Professionals can use Jobright AI to explore new career opportunities or plan career changes.
- Educational institutions can also use such tools to guide students in career planning.

Advantages of Jobright AI

- Jobright AI saves time by reducing the need to search multiple job portals.
- It provides personalized results instead of general job listings.
- The tool helps users understand job market requirements clearly.
- It supports career planning and decision-making.
- It is easy to use and does not require technical knowledge.

Disadvantages of Jobright AI

- Jobright AI depends on the accuracy of the user's profile information. If incorrect details are entered, the recommendations may not be useful.
- It may not cover all job sectors equally.
- Some advanced features may require payment.
- It cannot replace human career counselors completely.

Limitations of Jobright AI

- Jobright AI mainly depends on available job data and AI algorithms.
- It may not always reflect the latest changes in the job market.
- It also cannot fully understand personal motivations or emotional factors in career choice.

Role of Jobright AI in Career Planning

Jobright AI plays an important role in helping users make informed career decisions. Instead of randomly applying for jobs, users can rely on the system to understand their skills and suggest suitable roles.

It helps users:

- Identify jobs that match their qualifications
- Understand what skills are required for specific careers
- Plan their learning and improvement
- Track job opportunities based on their profile

By connecting personal skills with job market requirements, JobRight AI acts as a digital career assistant. It supports users in making clearer and more organized career choices.

Conclusion

Jobright AI is an AI-based career guidance and job recommendation tool that helps users find suitable job roles based on their skills and interests. It works by analyzing user profiles and matching them with job market data.

For students and job seekers, Jobright AI reduces the difficulty of choosing a career path and searching for jobs. By providing personalized recommendations and skill guidance, it supports better career planning and more efficient job searching.

SANGEETHA. R
2023IT33

ELICIT



Introduction

Artificial Intelligence (AI) has become an integral part of modern life, influencing education, research, healthcare, business, and communication. While popular AI tools such as chatbots and grammar assistants are widely recognized, many powerful AI tools remain unfamiliar to the general public. These lesser-known tools are often designed for specific purposes such as research assistance, decision-making support, and knowledge discovery rather than direct content creation.

One such unfamiliar yet impactful AI tool is Elicit. Unlike common AI writing platforms, Elicit focuses on understanding and organizing existing knowledge rather than generating creative text. This article presents an overview of Elicit as an unfamiliar AI tool, discussing its background, purpose, features, significance, advantages, limitations, and future scope.

What is Elicit?

Elicit is an AI-powered research assistant developed by the organization, which focuses on improving human reasoning with artificial intelligence. Elicit is designed to help users explore academic literature, analyze research findings, and extract meaningful insights from scientific papers.

Instead of acting like a traditional chatbot, Elicit works as a knowledge assistant. It scans large collections of research papers and presents relevant information in a structured and understandable format. This makes it particularly useful for students, educators, researchers, and anyone interested in evidence-based knowledge.

Elicit remains unfamiliar to many people because it is not designed for casual use and does not promote content generation, which is often associated with AI tools.

Purpose and Significance of Elicit

The primary purpose of Elicit is to support informed thinking by connecting users with reliable research evidence. In an era of misinformation and information overload, tools like Elicit play a crucial role in ensuring that knowledge is grounded in credible sources.

The significance of Elicit lies in its ability to:

- Promote evidence-based understanding
- Reduce the time required to explore academic research
- Encourage analytical thinking
- Support responsible use of AI

By focusing on verified research rather than opinion-based responses, Elicit represents a more disciplined and ethical approach to artificial intelligence.

Elicit- An Unfamiliar AI Tool:

Despite its usefulness, Elicit remains unfamiliar to many people due to several reasons:

1. It is designed mainly for academic and research purposes
2. It does not generate creative or conversational content
3. It requires analytical thinking from users
4. It is less promoted than mainstream AI tools

However, this unfamiliarity highlights the diversity of AI applications beyond entertainment and content creation.



Advantages of Elicit

- Encourages evidence-based thinking
- Saves time in academic exploration
- Improves understanding of complex topics
- Supports ethical and responsible AI usage
- Enhances the quality of knowledge acquisition

Disadvantages of Elicit

- Limited to academic papers
- Dependent on existing research
- Not a content generator

- Learning curve for new users
- Access restrictions and paid features

Conclusion

Elicit is a prime example of an unfamiliar AI tool that demonstrates the power of Artificial Intelligence beyond mainstream applications. By automating research, summarizing academic papers, and providing structured insights, it significantly reduces the time and effort required for evidence-based writing. While it has limitations, such as being restricted to academic content and not generating full articles, its ability to enhance research efficiency makes it a valuable tool for students, researchers, and writers. Elicit highlights how AI can quietly transform specialized tasks, proving that some of the most impactful AI tools remain less known but highly useful.

SHWETHA. S
2025MSIT10



CREATIVE CORNER

2025 - 2026



BY
S .NIVEDHA SRI
2025IT32



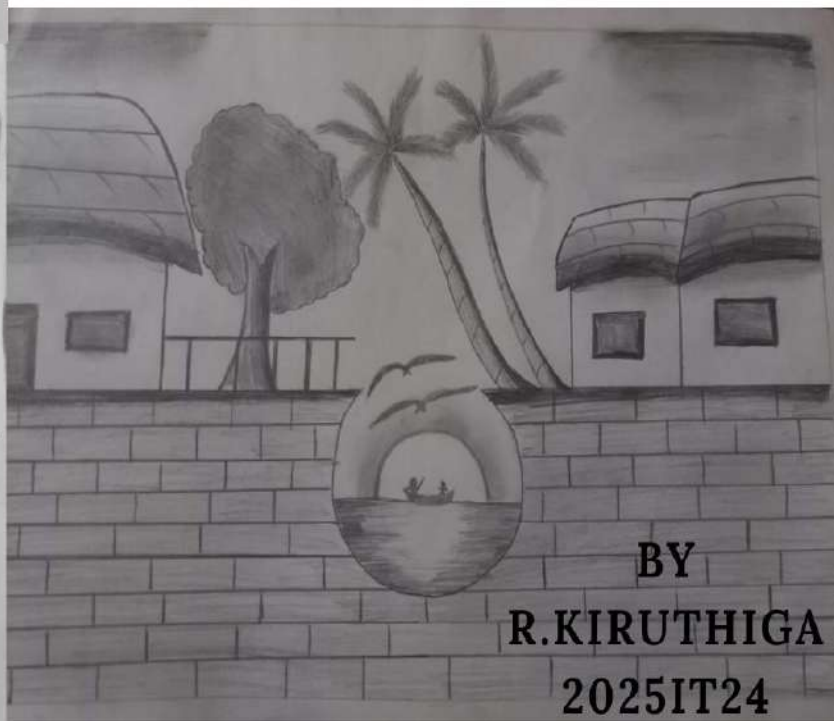
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S. SINDHUSHA
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2025IT24



Wow!

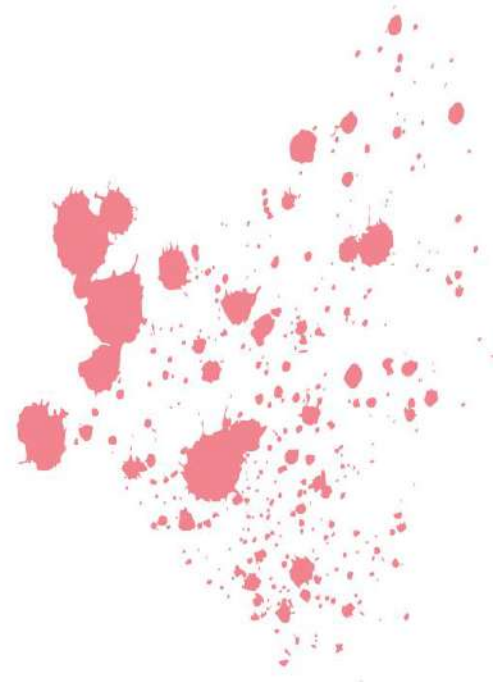


R.P.LEELAVINODHA
2025MSIT05





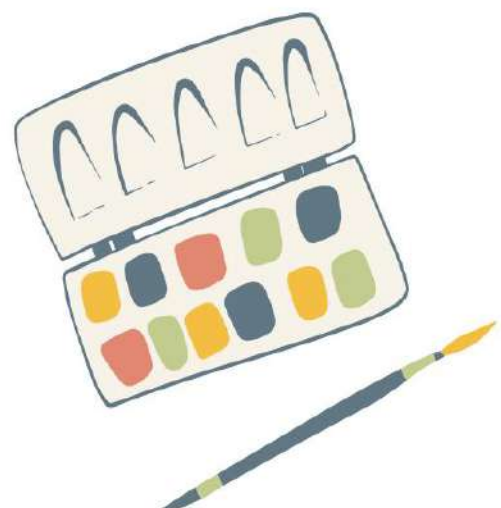
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K.RUTHRA SAHANA
2025IT36



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K.S. REHANA
2025IT35



BY
A.KIRUBASHINI
2025IT23





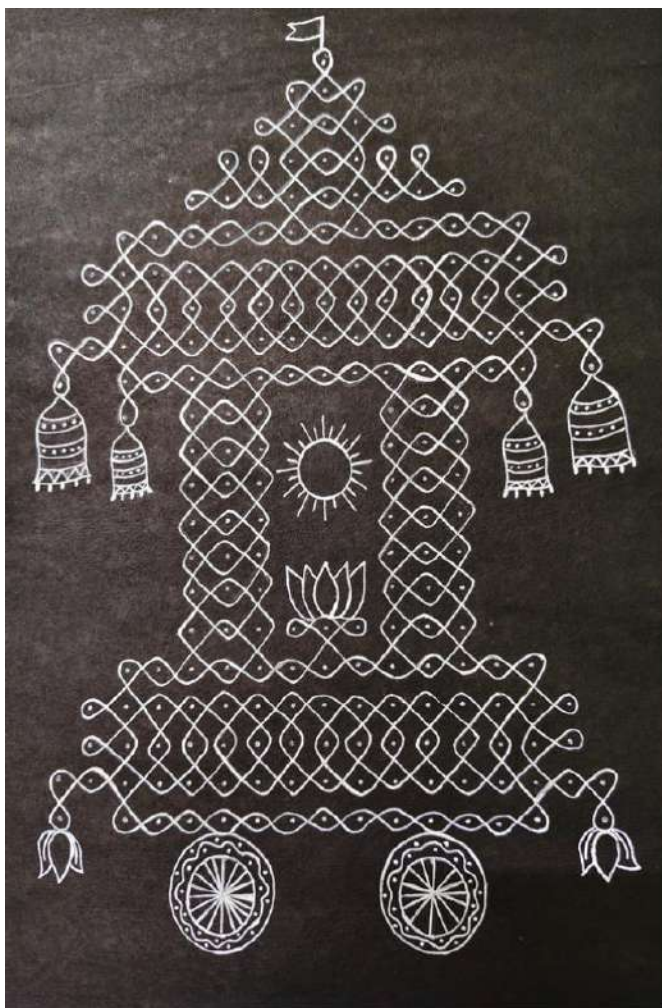
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M.V. SHIVANI
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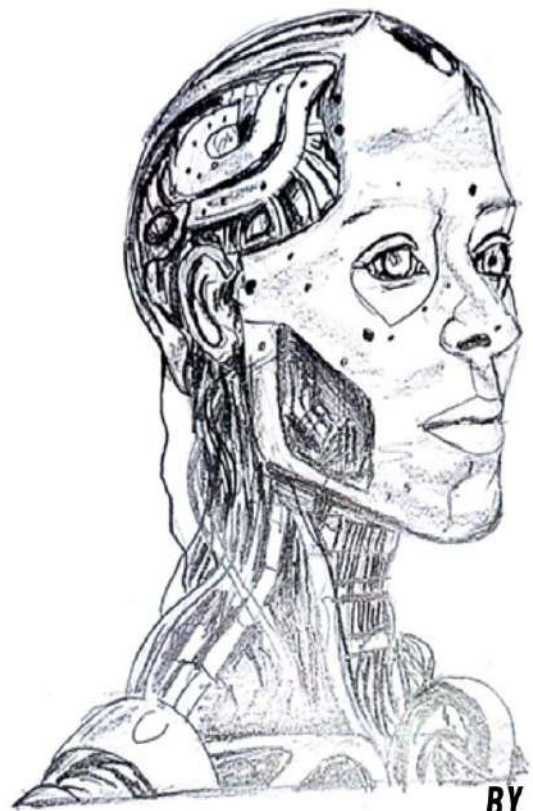
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A. DHARANI

2025IT12



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SU. SWETHA

2025IT48



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G.SRIDEVI

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R.SHREE HARINI

2023IT35



EXTRA SPOTLIGHT

Spatial Intelligence: AI Understanding the Real World

Exploring how artificial intelligence learns to perceive and reason about the physical world, by the work of Fei-Fei Li

Introduction

Artificial Intelligence has achieved impressive milestones, from language translation to visual recognition. However, despite these advances, AI systems still struggle with tasks that humans find trivial, such as navigating a room or understanding how objects interact in physical space. This gap highlights a fundamental limitation in current AI systems: the lack of *spatial intelligence*.

Spatial intelligence refers to the ability to perceive, understand, and reason about the three-dimensional world. As AI systems increasingly operate in real-world environments, spatial understanding becomes essential. Researchers such as **Fei-Fei Li** have emphasized that intelligence must be grounded in physical reality, not just data, to enable meaningful interaction with the world.

What is Spatial Intelligence in AI?

Spatial intelligence in AI goes beyond object recognition. It involves understanding depth, distance, scale, and spatial relationships, as well as reasoning about motion and physical interactions over time. While modern computer

vision systems excel at identifying objects in images, they often lack contextual understanding of a scene.

For instance, an AI may detect a cup on a table but fail to understand that the cup can be grasped or that it may fall if pushed. Humans naturally form internal 3D representations of their surroundings, enabling intuitive reasoning about space. Replicating this capability in machines remains a central challenge in AI research.



Limitations of Current AI Systems

Despite their success, many AI systems remain fundamentally limited when deployed in real-world environments:

- **Limited physical reasoning:** AI struggles to predict object behavior

under forces such as gravity or collision.

- **Static perception:** Many models analyze isolated images rather than dynamic environments.
- **Disembodied learning:** Most AI systems learn passively, without interacting with their environment.

Fei-Fei Li and the Shift Toward Embodied AI

Fei-Fei Li, a prominent figure in computer vision, has played a crucial role in redefining machine perception. While she is widely recognized for leading the ImageNet project, her recent research emphasizes **embodied AI** systems that learn through interaction with their environment.

Li argues that spatial intelligence cannot be learned solely from static images or datasets. Instead, AI systems must actively explore, make decisions, and learn from the consequences of their actions. Through her work at Stanford University and the Stanford Vision and Learning Lab, she has promoted research that integrates perception, action, and learning into a unified framework.



Key Technical Components of Spatial Intelligence

1. 3D Scene Representation

AI systems must construct three-dimensional representations using depth estimation, point clouds, voxel models, or neural radiance fields. These representations enable reasoning about geometry and spatial relationships.

2. Multimodal Perception

Combining vision with audio, tactile feedback, and proprioception allows AI systems to build richer environmental models and improve robustness.

3. Simulation-Based Learning

High-fidelity simulators allow agents to learn through trial and error in realistic environments, reducing the cost and risk of real-world training.

4. Reinforcement Learning and Interaction

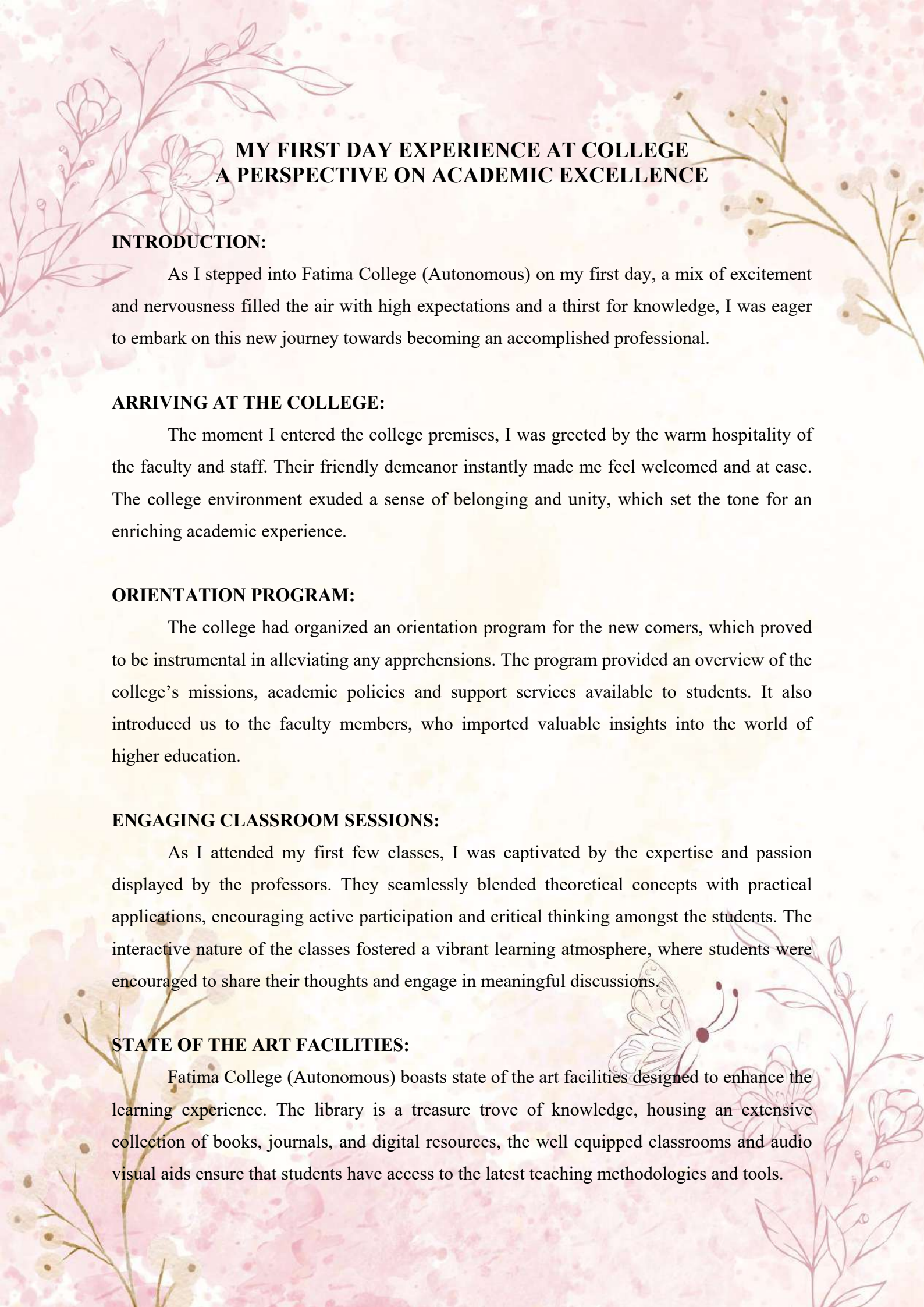
Reinforcement learning enables agents to learn cause-and-effect relationships by linking actions with outcomes, a key requirement for spatial reasoning.

Conclusion

Spatial intelligence enables machines to reason about geometry, and causality. Fei-Fei Li's work underscores the importance of embodied perception in advancing AI beyond purely data-driven models.

HARINI PRIYA. M

2024MSIT01



MY FIRST DAY EXPERIENCE AT COLLEGE A PERSPECTIVE ON ACADEMIC EXCELLENCE

INTRODUCTION:

As I stepped into Fatima College (Autonomous) on my first day, a mix of excitement and nervousness filled the air with high expectations and a thirst for knowledge, I was eager to embark on this new journey towards becoming an accomplished professional.

ARRIVING AT THE COLLEGE:

The moment I entered the college premises, I was greeted by the warm hospitality of the faculty and staff. Their friendly demeanor instantly made me feel welcomed and at ease. The college environment exuded a sense of belonging and unity, which set the tone for an enriching academic experience.

ORIENTATION PROGRAM:

The college had organized an orientation program for the new comers, which proved to be instrumental in alleviating any apprehensions. The program provided an overview of the college's missions, academic policies and support services available to students. It also introduced us to the faculty members, who imported valuable insights into the world of higher education.

ENGAGING CLASSROOM SESSIONS:

As I attended my first few classes, I was captivated by the expertise and passion displayed by the professors. They seamlessly blended theoretical concepts with practical applications, encouraging active participation and critical thinking amongst the students. The interactive nature of the classes fostered a vibrant learning atmosphere, where students were encouraged to share their thoughts and engage in meaningful discussions.

STATE OF THE ART FACILITIES:

Fatima College (Autonomous) boasts state of the art facilities designed to enhance the learning experience. The library is a treasure trove of knowledge, housing an extensive collection of books, journals, and digital resources, the well equipped classrooms and audio visual aids ensure that students have access to the latest teaching methodologies and tools.

SUPPORTIVE STUDENT COMMUNITY:

One of the most remarkable aspects of my first day at Fatima College (Autonomous) was the camaraderie among students. The college fostered an inclusive environment that encouraged collaboration and support. Senior students mentored us, guiding us through various academic and extracurricular activities.

CONCLUSIONS:

My first day experience at Fatima College (Autonomous) left an indelible impression on me. The college's commitment to academic excellence, engaging classroom sessions, top notch facilities and a supportive student community truly set the foundation for a transformative academic journey. I am confident that this educational institution will provide me with the necessary skills and knowledge to excel in my field and make a positive impact on future generations.



J.J.ABIRAMI
2025 IT03

A DEVICE BEYOND THE STARS

Humans fear what they can't control because it's unpredictable and they don't know what it could do or how much power it holds and right now I'm in the same position. Few months back I joined a company which conducts research on unfamiliar objects from space and my first mission is to find the origin of the object that came from space. From a young age I was interested in space and astronomy so I pursued and eventually graduated. I joined my dream company in which they study and research the space. Recently an unknown object fell from the sky a first everyone thought it was a comet, turns out it wasn't. It was an orb...a black orb. We didn't know what it was of well.... It's not surprising as it was from space.

The company assigned a team to work with me on this project. we've been studying this object for the past 4 months but we couldn't find anything. As we looked into what this orb could be made of, we found out the material in which the orb is made is not even in our milky way. Scientists assumed I could be from interstellar space as they said it is only their assumption but not a certain fact. Later that day everyone except me left the research centre but I couldn't. So, I stayed that night there trying to figure out what was the object's purpose

I picked the orb and looked at it for some time. It was so smooth and it didn't have any cracks even though it fell from space. As I started fiddling with it, it suddenly started beeping and I was so terrified that I couldn't move a single muscle. It suddenly started spinning like a sphere and it was levitating. It is a hologram device.... a girl appeared and started speaking in a language I didn't know but it sounded familiar. So I recorded the voice and reversed it.

In that recording she was saying that earth is going to be trapped in a time loop people live in the same moments again and again and that I have to break the time loop. She also said that their planet and ours are linked through quantum tunnelling if earth collapses their planet is next and they need my help to break the time loop at a particular time. After I listened to it I couldn't believe it, Who would. It seems stupid like somebody was trying to mess with me. I went home and started thinking.... after thinking it seemed possible because when the universe was created there are some particles are linked with each other. If something were to happen with one particle the other particle could feel it even across the universe. It seems it happened with our planets.

It happened in the next few days people started experiencing the same moments. They didn't know they were stuck in a time loop but I knew. People started sensing déjà vu, they got anxious and confused. The satellites started failing and GPS too. Nobody knew why. People cannot sense pattern but machine can.

Once I calmed my mind, I went to the lab again to put an end to this. I listened to the other of the recording to know where and when I should break the time loop. It is after 6 hours from now on. I had lot of time so I went home again to think about this deeply. I thought about it seems strange. Like they said if they are from a parallel world, they would be like us. they cannot access time.....they are from fifth dimension! Only fourth dimension and above could access time as fourth dimension could only go back in time and that leaves the fifth dimension. It is unbelievable....

I rushed to the lab and prevented them from launching a satellite because I was the root cause or the time loop to happen. When it reaches the space, I affected the earth's electromagnetic field causing the glitch in time.

At last everything went back to normal, the loop broke but nobody had any idea that something like this happened. It is a experience that only I remember. The world woke up to another morning just like nothing happened. Sometimes when I look at the stars and wonder if everything was a dream but it is not. It really happened....

The universe is vast and it keeps expanding.... We humans only have limited knowledge but it is beyond our imagination where anything could exist. There are countless reality and universe and they are watching us.

LAKSHMI PRIYA. A. S

2025IT26

INVISIBLE INNOVATORS

Tech Heroes We Never Talk About

Not all heroes wear hoodies on conference stages. Some sit quietly behind screens, keeping the digital world alive

The Other Side of Innovation

Innovation is often portrayed as a spark of genius from a single mind. But in reality, it is a chain reaction of effort, patience, and teamwork. For every viral application, there are months of backend logic, endless testing cycles, security audits, and maintenance work. Innovation does not happen overnight, and it certainly does not happen alone.

Behind every smooth click is a complex system, and behind every system are people you never see. When technology succeeds, we celebrate the product.

In practice, innovation is slow, layered, and deeply collaborative. Every new feature passes through planning, architecture design, implementation, testing, security checks, deployment, and continuous monitoring. Each stage depends on different individuals contributing their expertise, often without recognition.

Innovation, therefore, is not a single moment but a long process shaped by many invisible efforts.

Moreover, innovation is sustained, not completed. After a product is launched, the real work begins—fixing bugs, handling unexpected failures, scaling systems, and responding to user behavior. This continuous improvement is what keeps technology relevant and reliable overtime. Without this ongoing effort, even the most brilliant ideas would quickly collapse.

True innovation lives in consistency, patience, and accountability. It is built by people who show up every day to improve systems that may never carry their names.

Who Are These Invisible Innovators?

Invisible innovators are not defined by job titles alone, but by the nature of their work—critical, continuous, and largely unnoticed.

- **Backend Developers:** They design the architecture that ensures speed, scalability, and reliability. Users never see their code, but they experience its impact every second.
- **Quality Assurance (QA) Engineers:** Their job is to think like users and break systems

before users can. Every bug-free experience is a silent victory for them.

- **Data Annotators and Labelers:** AI does not learn magically. These professionals teach machines by carefully tagging images, text, and patterns, often doing repetitive yet highly important work.
- **Cyber security Analysts:** While the world sleeps, they stay alert. Their success is measured by attacks that never happened.
- **IT Support and System Administrators:** They are the first responders of the tech world, fixing issues before they escalate into disasters.
- **DevOps Engineers** bridge the gap between development and operations. They automate deployments, manage pipelines, and ensure that new updates reach users safely and efficiently. Their role is crucial in delivering innovation at speed.
- **Technical Support Professionals** are the human interface of technology. They solve problems, guide users, and handle frustrations patiently. Their communication skills are as important as their technical knowledge.
- **UI/UX Reviewers and Accessibility Testers** ensure that technology is usable by everyone, including people with disabilities. Their contributions promote inclusivity, yet they rarely receive recognition for improving digital equity.

Together, these invisible innovators form the backbone of the tech ecosystem. Without their combined efforts, innovation would remain an idea rather than a functioning reality.

Why Their Work Deserves Recognition?



Small Town Tech: Innovators from Places you won't Expect

The digital world functions on trust—trust that applications will work, data will remain secure, and systems will not fail at critical moments. This trust is built by invisible innovators whose consistent efforts ensure reliability. Without their dedication, technology would be unpredictable and unsafe to depend on.

Their contributions also directly impact innovation quality. When testers, security teams, and system engineers are valued, products become more stable, inclusive, and ethical. Recognition encourages higher standards and reduces the risk of careless or rushed development.

Acknowledging invisible innovators improves workplace culture. Feeling seen and appreciated reduces burnout, increases motivation, and fosters collaboration. Teams that recognize every contributor tend to perform better and innovate more sustainably.

From a broader perspective, recognition helps redefine success in the tech industry. It shifts focus from individual fame to collective achievement, reminding us that progress is a shared effort rather than a solo journey.

Ultimately, recognizing invisible innovators is about fairness and respect. Their work may remain unseen by users, but its impact is deeply felt every day.

When technology feels effortless, it is because someone made the effort invisible.



Building Intelligence: Crafting the Brains Behind AI

The Cost of Being Invisible

Lack of recognition is not just an emotional issue— it has professional consequences. Invisible innovators often face:

- Limited appreciation despite high responsibility
- Burnout due to long working hours Fewer leadership opportunities minimal public acknowledgment

Yet, many continue with dedication, driven by purpose rather than praise. This quiet resilience is what truly sustains the tech industry.

A Message to Aspiring Technologists

If you are entering the tech field, remember this: visibility is not the same as value. You do not need to be in the spotlight to make a meaningful impact. Some of the most important

work happens quietly, patiently, and consistently.

When technology succeeds, we celebrate the product. When it fails, we question the system. Rarely do we pause to ask: Who made this work in the first place? In a world obsessed with visible success, there exists an entire community of professionals whose contributions remain hidden. These are the invisible innovators—the silent force powering our digital lives.



Conclusion: Giving Credit Where it's Due

The digital world is built by many hands, not just a few famous names. Invisible innovators may work in silence, but their impact is loud and lasting. This extra spotlight is a reminder that true progress happens when every contributor is valued.

Innovation shines brightest when even the unseen are seen.

SHYAMALA. G
2023IT36

BEYOND THE SPOTLIGHT

In every institution, there are talents that shine brightly under the spotlight, while many others remain unnoticed. Extra Spotlight is an attempt to bring recognition to those hidden abilities, silent efforts, and extraordinary skills that often go unappreciated.

Talent is not limited to academic excellence alone. Creativity, leadership, emotional intelligence, teamwork, and innovation are equally important in shaping an individual. Many students and staff contribute significantly to the success of institutions without expecting recognition.

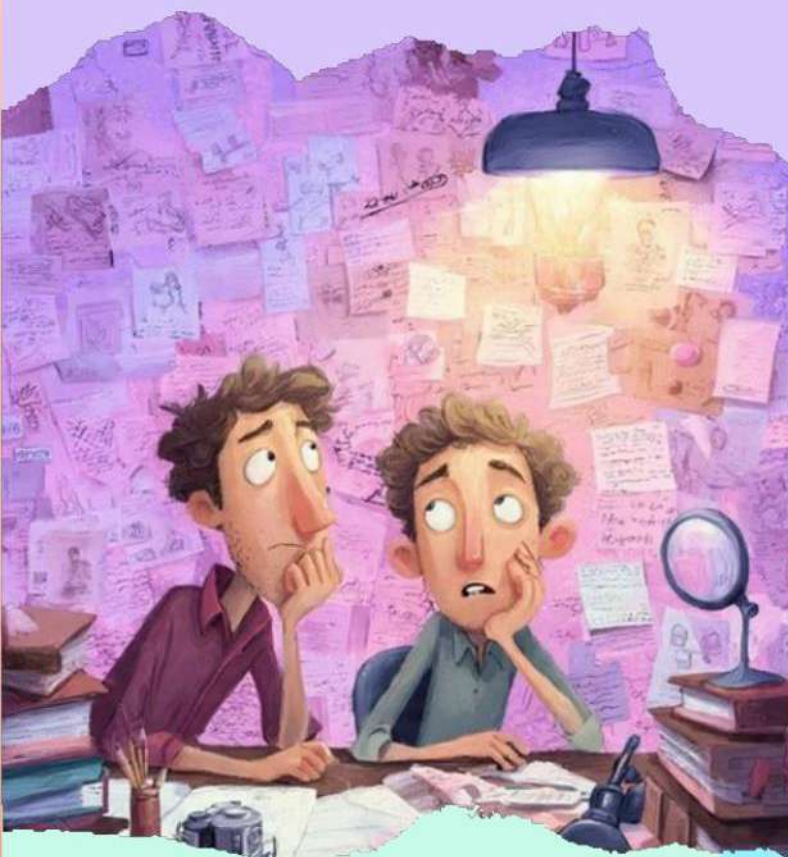
This magazine aims to celebrate such individuals and encourage everyone to look beyond marks and certificates. By giving an extra spotlight to the unseen, we can build a more inclusive, motivating, and inspiring environment where every effort matters.



Beyond Visible Achievements

In most educational environments, recognition is often focused on visible achievements such as academic ranks, medals, awards, and stage performances. While these accomplishments are important, they represent only a fraction of the effort that goes into building a successful institution.

Many meaningful contributions happen quietly, without applause or public acknowledgment, yet they form the foundation of daily progress and discipline.



Building a Culture of Appreciation

Extra Spotlight promotes a culture where gratitude and respect are part of everyday life.

By appreciating both visible and invisible efforts, institutions nurture teamwork, empathy, and mutual understanding.

This culture motivates everyone to support one another rather than compete for attention.

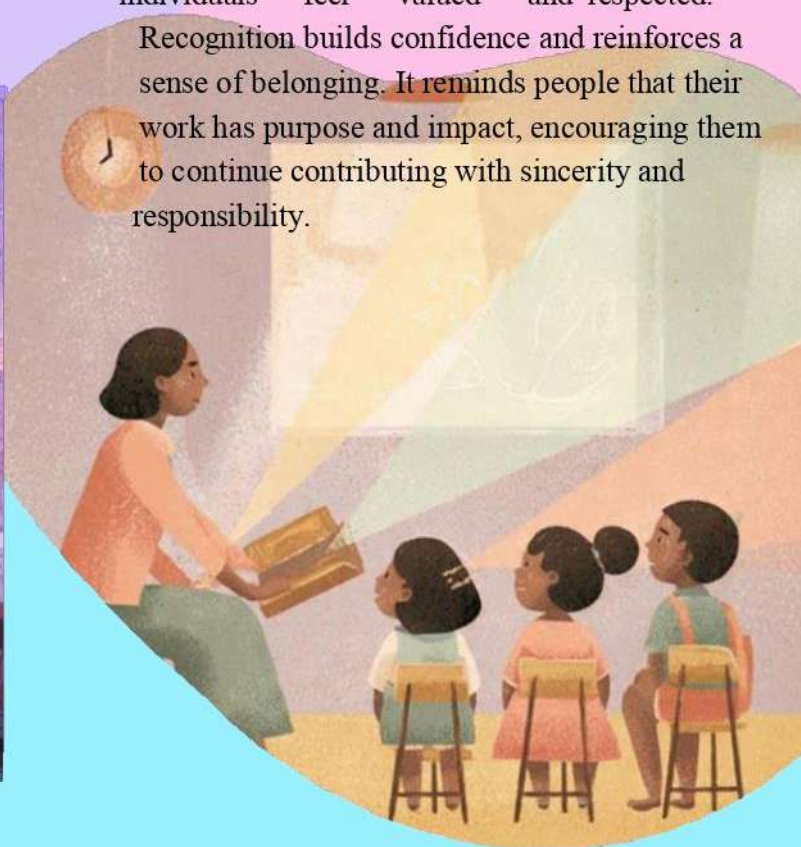
The Power of Silent Contributions

Behind every achievement lies the dedication of individuals who work silently—supporting others, maintaining order, managing responsibilities, and ensuring smooth functioning. These contributors may not stand in the spotlight, but have a crucial role in creating a stable and positive learning environment.

Why Recognition Truly Matters

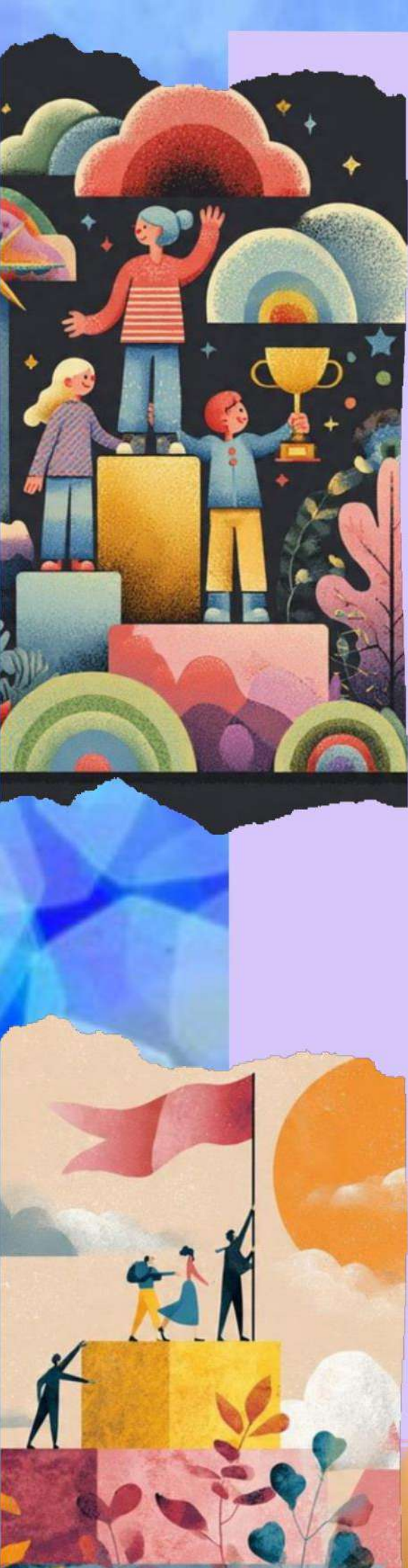
When such efforts are acknowledged, individuals feel valued and respected.

Recognition builds confidence and reinforces a sense of belonging. It reminds people that their work has purpose and impact, encouraging them to continue contributing with sincerity and responsibility.



Creating a Supportive Learning Environment

A learning environment that values all contributions becomes more positive and inclusive. Extra Spotlight helps balance recognition by honoring those who work behind the scenes, ultimately strengthening harmony, cooperation, and shared success within the institution.



VALUES THAT DESERVE SPOTLIGHT

Achievements and accolades are often celebrated publicly, but there is another kind of greatness that quietly shapes the people around us—the values we live by. Beyond grades, awards, or visible success, qualities like honesty, consistency, empathy, teamwork, and responsibility form the backbone of strong individuals and responsible citizens. These values guide our actions, define our character, and influence the environment we live in, yet they often go unnoticed.

Honesty ensures trust in relationships and builds credibility. Even small acts of truthfulness, like owning up to mistakes or providing sincere feedback, create an atmosphere of integrity. Consistency is another silent value; individuals who persistently work with dedication, follow through on promises, and show reliability demonstrate strength that is far more enduring than momentary brilliance.

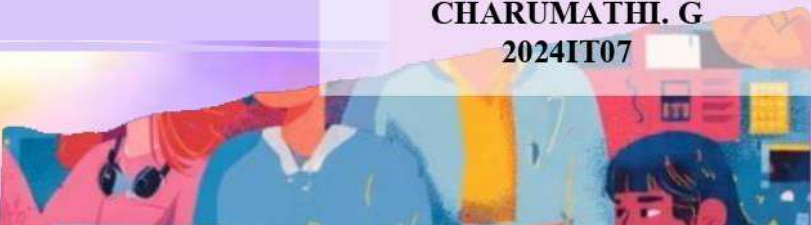
Empathy, the ability to understand and share the feelings of others, is a value that fosters harmony. A simple gesture of support or understanding can make someone's day and strengthen bonds within a community. A unified team works well and accomplishes more, and the equal willingness to share responsibilities, support peers, and contribute selflessly is a value that sustains collective success. Responsibility, too, goes beyond completing tasks—it is about accountability, ethical decision-making, and being aware of the impact of one's actions on others.

Although these values may not always receive public recognition, they deserve a spotlight just as much as visible accomplishments. Highlighting them encourages individuals to focus on personal growth, ethical behavior, and the well-being of the community. By appreciating and acknowledging these values, Extra Spotlight helps cultivate a culture of respect, discipline, and positive influence, reminding us that true success is not only about what we achieve but also about who we become in the process.

Give a little spotlight, and let hidden brilliance shine.

CHARUMATHI. G

2024IT07





CREATIVE MINDS

Spotlight Feature

The Spotlight Feature is the core of the magazine. This section highlights powerful narratives that reflect determination, creativity, and purpose. Whether it's a personal journey, a community initiative, or a breakthrough idea, these stories represent excellence in action.

By exploring challenges, achievements, and lessons learned, the Spotlight Feature encourages readers to find inspiration in real experiences. It reminds us that behind

Rising Stars: The Future in Focus

The **Rising Stars** section is dedicated to individuals who are shaping the future with fresh ideas and fearless ambition. These are students, artists, innovators, and leaders who are at the early stages of their journeys but already leaving a mark.

Their stories prove that age and background do not define potential. Through passion, hard work, and creativity, these rising stars demonstrate that success begins with self-belief and the courage to take the first step.

Trend Watch

Trends are more than temporary styles—they reflect changing values, ideas, and lifestyles. **Trend Watch** explores the movements shaping today's culture, from fashion and technology to wellness and digital expression.

This section breaks down why trends emerge, how they influence society, and what they say about the future. Extra Spotlight helps readers stay informed, inspired, and aware of the evolving world around them.

Creative Corner: Where Imagination Comes Alive

Creative Corner is a celebration of artistic expression in all its forms. From visual art and photography to writing and design, this section showcases creativity as a powerful tool for communication and change.

Art has the ability to tell stories, express emotions, and challenge perspectives. Creative Corner honours artists and creators who use their talents to inspire, provoke thought, and bring beauty into everyday life.





Innovation & Ideas: Thinking Beyond Boundaries

Innovation begins with curiosity. The **Innovation & Ideas** section explores how creative thinking and technology are shaping the future. It highlights solutions designed to solve problems, improve lives, and build a better world.

From sustainable initiatives to digital advancements, this section showcases thinkers who dare to imagine possibilities beyond limitations. It encourages readers to embrace innovation and think boldly.

Lifestyle Spotlight: Designing a Balanced Life

Modern life is filled with constant demands and distractions. **Lifestyle Spotlight** focuses on balance, wellness, and mindful living. It explores habits, routines, and perspectives that promote personal growth and mental well-being.

This section reminds readers that success is not only about achievement but also about health, happiness, and fulfillment. It encourages thoughtful living and intentional choices.

A Closing Reflection

The **Final Spotlight** brings the magazine to a thoughtful close. It reflects on the stories, ideas, and inspirations shared throughout the pages. This section encourages readers to carry forward creativity, curiosity, and confidence.

Extra Spotlight exists to remind everyone that every individual has a story worth telling and a light worth shining. As you turn the final page, we hope you feel inspired to step into your own spotlight.

PRATHIBA. S
2024IT35





THE PULSE OF TOMORROW

We dream in codes, in lines unseen,
Building worlds from what has been.
She builds quietly, her hands, her mind,
New paths for those who dare to find.

Jobs these days ask for more than a name,
Skills and heart matter just the same.
AI tools whisper, hidden and
shy, Helping us wonder, learn,
and try.

Gadgets gleam, but it's the human spark,
that lights the way when days feel dark.
Internships teach, stumble, then rise,
Lessons we carry beyond the skies.

In every corner, creativity hums, Extra
spotlight shines when passion drums.
Through tech and dreams, we slowly see,
The world we shape is who we'll be.

SANGEETHA. R
2023IT33

TRAVEL APP UI - OVERVIEW SCREEN



This travel app is designed to inspire users to explore destinations effortlessly through a visually rich and intuitive interface. The on boarding screen introduces the app with a scenic travel image and a clear call-to-action, setting the tone for discovery and adventure.

The home screen helps users find their favorite places quickly using a search bar and curated travel packages such as flight, hotel, and all-inclusive options. Destinations are neatly categorized into sections like *Spend Little Time in Nature* and *Popular Destinations*, making browsing simple and engaging.

The destination detail screen provides an immersive experience with high – quality visuals, key trip information such as duration, distance, and ratings, along with sections like *About*, *Gallery*, and *Reviews*. A prominent **Start Your Trip** button encourages users to proceed with planning, making the app both informative and action-oriented.

Overall, the app combines aesthetic design with user-friendly navigation to deliver a smooth and inspiring travel planning experience.



KAVYA DHARSHINI. R
2023IT15

GUESS THE ANSWERS?

s.no	QUESTIONS	CLUE	ANSWER
1	The process of machines learning from data is called?	EARLING	
2	AI that performs a specific task is called?	ROWNAR	
3	Teaching a model using data is called?	RAINGTIN	
4	Data used to test a model is called?	ESTING	
5	A system that suggests products online is called?	MENCOMDATIONRE	
6	Identifying objects in images is called?	NIGOREITCMON	
7	The process of finding patterns in data is called?	NNIIGM	
8	A collection of data is called?	TESTADA	
9	A mistake made by a model is called?	ORRER	
10	Robots that act automatically are called?	TONOAMUSOU	
11	AI that mimics human thinking is called?	IVETOGCNI	
12	The field of AI inspired by the human brain is called?	LARNEU	
13	The step of improving model performance is called?	ZATIONTIOPMI	
14	Breaking text into small parts in NLP is called?	KENTOITIONZA	
15	AI used for face detection is part of?	NIOSIV	
16	The process of grouping similar data is called?	INGTERCLUS	
17	The output given by a model is called?	DICPRETION	
18	AI system that learns with labeled data is called?	RESUPVISED	
19	Learning by rewards and punishments is called?	MENCEFORREINT	
20	Adjusting model settings is called?	SUREPVIUNED	

GUESS THE ANSWERS?

ANSWERS:

1. LEARNING
2. NARROW
3. TRAINING
4. TESTING
5. RECOMMENDATION
6. RECOGNITION
7. MINING
8. DATASET
9. ERROR
10. AUTONOMOUS
11. COGNITIVE
12. NEURAL
13. OPTIMIZATION
14. TOKENIZATION
15. VISION
16. CLUSTERING
17. PREDICTION
18. SUPERVISED
19. REINFORCEMENT
20. UNSUPERVISED

MANNAL. M
2023IT22

FIND THE WORDS RELATED AI

S	I	M	U	L	A	T	I	O	N	V	I	R	T	U	A	L	B	I
K	T	R	A	I	N	E	D	D	A	T	A	H	J	K	L	C	P	N
L	A	M	A	B	D	E	F	O	U	T	P	U	T	M	O	L	Q	A
C	T	A	G	E	N	T	G	C	L	U	S	T	E	R	R	O	S	R
P	A	T	T	E	R	N	O	P	R	E	D	I	C	Y	T	U	U	Y
M	D	C	O	N	T	R	O	L	S	Q	P	O	Z	Y	V	D	W	X
K	G	B	A	A	A	I	F	R	A	M	E	W	O	R	K	W	B	X
L	I	Z	I	U	Q	D	S	T	U	V	A	N	A	L	I	S	I	S
N	B	O	P	R	A	L	G	O	R	I	T	H	M	I	N	I	N	G
I	N	P	U	T	I	N	E	T	E	L	L	I	G	E	N	C	A	U
H	E	L	A	K	I	M	R	I	N	T	E	R	F	A	C	E	R	N
O	L	S	T	R	A	O	M	O	D	E	L	A	B	L	E	F	Y	S
A	E	H	I	R	S	V	A	L	E	C	K	A	V	Y	A	E	A	U
T	M	K	G	N	N	E	K	O	T	L	R	S	Y	S	T	E	M	P
A	N	O	E	A	L	L	I	K	E	A	R	V	D	N	E	D	A	E
N	R	S	P	E	E	C	H	C	C	S	N	I	W	E	X	B	T	R
P	E	D	R	O	B	O	T	H	T	S	E	S	U	T	P	A	R	V
M	I	U	E	V	O	I	C	A	K	I	L	I	C	W	E	C	I	I
A	N	T	D	I	C	D	A	T	A	F	K	O	S	O	R	K	X	S
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A	R	M	P	H	A	K	U	T	E	X	T	K	I	R	T	H	I	A
L	C	E	R	I	Z	P	R	O	C	E	S	S	M	A	R	T	K	I
O	E	M	E	N	T	D	A	C	C	U	R	A	C	Y	V	A	L	L
V	O	I	C	E	K	V	I	M	A	D	H	U	N	E	U	R	A	L

FIND THE WORDS RELATED AI

- ✓ TRAINED DATA
- ✓ UNSUPERVISED
- ✓ OUTPUT
- ✓ REINFORCE
- ✓ PATTERN
- ✓ FEEDBACK
- ✓ PREDICT
- ✓ CONTROL
- ✓ AI
- ✓ VIRTUAL
- ✓ ANALYSIS
- ✓ SENSOR
- ✓ ALGORITHM
- ✓ MEMORY
- ✓ INPUT
- ✓ TEXT
- ✓ DATASET
- ✓ VOICE
- ✓ MODEL
- ✓ CLOUD
- ✓ SPEED
- ✓ FRAMEWORK
- ✓ DATA
- ✓ SMART
- ✓ ACCURACY
- ✓ EXPERT
- ✓ NEURAL
- ✓ CLUSTER
- ✓ CODE
- ✓ LABEL
- ✓ DEEP

- ✓ TOKEN
- ✓ SYSTEM
- ✓ MATRIX
- ✓ VISION
- ✓ KERNEL
- ✓ NETWORK
- ✓ INTERFACE
- ✓ CHATBOT
- ✓ DETECT
- ✓ INTELLIGENCE
- ✓ ROBOT
- ✓ PROGRAM
- ✓ CLASSIFY
- ✓ PROCESS
- ✓ MINING
- ✓ BIGDATA
- ✓ BINARY
- ✓ SIMULATION
- ✓ SUPERVISED

KIRTHIKA. K
2023IT17



THE
ELITE
CLUB

WALL PAINTING INITIATIVE – “BETI BACHAO BETI PADHAO”

OUR COLLEGE ORGANIZED A WALL PAINTING ACTIVITY
BASED ON THE THEME “BETI BACHAO BETI PADHAO.”

The students actively participated and created beautiful
paintings that convey the importance of saving and
educating the girl child.

These paintings spread awareness about gender equality,
women empowerment, and the value of education for
girls.



III UG

R. Mahalakshmi 2023IT20
V. Dhanushri 2023IT10
K. Devibanu 2023IT09
S. Rajalakshmi 2023IT29
R. Sribrindha 2023IT38

THE ARTWORK HAS BEEN DISPLAYED ON THE
WALLS OF OUR COLLEGE CAMPUS SO THAT
STUDENTS AND VISITORS CAN EASILY SEE THE
MESSAGE.



II UG

P.Dharaneeswari 2024IT10
R.Girija 2024IT13
N.Indhurani 2024IT20
L.Nephy Jina 2024IT32
R.Rasikapriya 2023IT38



I M.Sc. IT

1. M.Akshaya - 2025MSIT01
2. R.P.Leelavinodha - 2025MSIT05
3. S.Shwetha - 2025MSIT10
4. B.Sriyokitha - 2025MSIT12
5. M.Selvarani - 2025MSIT13



Madurai, Tamil Nadu, India



Madurai, Tamil Nadu, India



CLUB COMPETITION



Madurai, Tamil Nadu, India
Fatima college, Mary land, Madurai, Tamil Nadu
625018, India



Our students participated in exploria and presented a PPT on the topic "Blockchain-Powered Digital Archiving of Ancient Indian Manuscripts for Cultural Preservation" and won 1st prize with a cash amount of 5K.



M. Meena and P. Akshaya Shree participated in the America College Inter-Collegiate Meet GEN5 2K25 and secured Third Prize in the Quiz Competition.

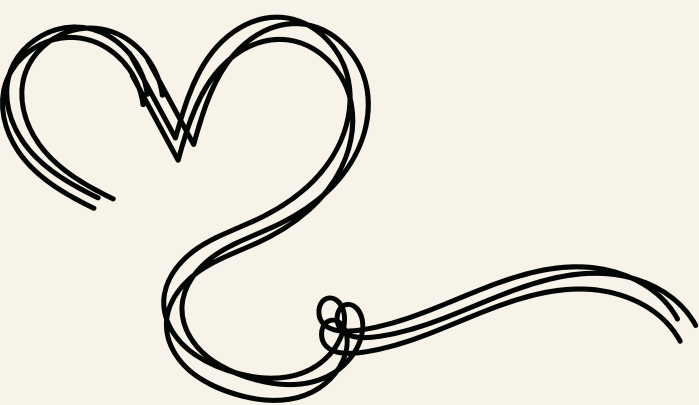


Won 1st Prize in Art from E-Waste, 2nd Prize in As You Like It, and 3rd Prize in Rangoli at the Sparkathon event conducted by Madonna College.

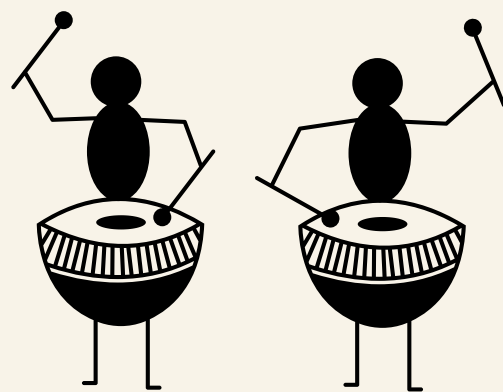
**REWARDING
AND
AWARDING**



Our students participated in GANANITHANTRA 2k26 held at vivekanandha college and secured 1st prize in Rangoli art, Software marketing, 2nd prize in ppt, Short film competition.



STAFFS TALENTS





DONE BY
MRS. T. LEENA PREMAKUMARI





DONE BY
MS. P. ALAGUMEENA



Cybersecurity Using Explainable Artificial Intelligence (XAI) Approaches



With the rapid growth of digital technologies and networked systems, cybersecurity has become a critical concern for organizations and individuals worldwide. Artificial Intelligence (AI) and machine learning techniques are increasingly used to detect cyber threats such as malware attacks, phishing, intrusion attempts, and data breaches. However, many traditional AI models operate as “black-box” systems, making their decision-making processes difficult to interpret and trust. Explainable Artificial intelligence (XAI) addresses this limitation by providing transparency and interpretability in AI-based cybersecurity systems. XAI approaches enable security analysts to understand how and why a particular threat is detected, improving confidence, accountability, and decision-making efficiency.

These techniques assist in identifying vulnerabilities, enhancing threat detection accuracy, and supporting faster incident response through interpretable insights. Furthermore, XAI contributes to regulatory compliance and strengthens human–machine collaboration in security operations. Despite challenges such as computational complexity and integration issues, XAI-based cybersecurity frameworks offer promising solutions for building secure, reliable, and trustworthy intelligent defense systems. Therefore, the application of XAI in cybersecurity plays a vital role in developing transparent and effective protection mechanisms against evolving cyber threats in modern digital environments.

DONE BY

MRS. N. JENIFER SHARON SUMATHI



The image features a light green background with decorative elements in the corners. In the top-left and bottom-right corners, there are stylized, light green circular shapes with thin black outlines. In the top-right and bottom-left corners, there are black line drawings of leafy branches with several pointed leaves.

Thank You

- IT Family! ✨

"Technology is best when it brings people together"

INFO TECH

EXPLAINABLE AI

MAKING AI SYSTEMS
UNDERSTANDABLE TO
HUMANS

GENZ TECH INNOVATORS

THE NEW FACES OF TECH

SHE BUILDS

FEMALE TECH INNOVATORS

UNFAMILIAR AI TOOLS

MAKING AI TOOLS
FAMILIAR

Modern job skills

Skills vs Certifications

Technology and Gadget
review

Internship Journey

Sharing their learning
experience

**"WHEN WOMEN
INNOVATE, THE
WORLD
TRANSFORMS"**



CREATIVE CORNER

Expressing Creativity!



EXTRA SPOTLIGHT

Showcase of Talents!

**"IT PROFESSIONALS
DON'T JUST FIX
PROBLEMS.
THEY BUILD THE
FUTURE."**

