

**FATIMA COLLEGE (AUTONOMOUS), MADURAI-18**

**DEPARTMENT OF COMPUTER SCIENCE**

**Title : Four day Online Workshop on Problem Solving with AI using Python**

**Date : 03-08-2020 to 06-08-2020**

**Resource Persons : 1. Dr.M.Mary Shanthi Rani, Asst. Professor,**  
Dept. of CS & Applications, Gandhigram Rural Institute,  
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**2. Dr. P. Shanmugavadivu, Head & Professor,**  
Dept. of CS & Applications, Gandhigram Rural Institute,  
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**3. Ms.G.KaniMozhi**  
Dept. of CS & Applications, Gandhigram Rural Institute,  
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**4. Mr.S.Lakshmanan**  
Dept. of CS & Applications, Gandhigram Rural Institute,  
Gandhigram,

**No. of Participants : 63**

**Focus on : Skill Development**

**Outcome : Understand a wide variety of learning algorithms.**  
**Understand how to evaluate models generated from data**



# FATIMA COLLEGE

(Autonomous)

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74<sup>th</sup> Rank in India Ranking 2020 (NIRF) by MHRD  
Mary Land, Madurai – 625 018

## Four Day On-line Workshop On PROBLEM SOLVING WITH AI USING PYTHON



### Resource Persons

**Day 1: 3<sup>rd</sup> August 2020**



***Essentials of AI in Nutshell***

**Dr.M.Mary Shanthi Rani,**

**Asst. Professor**

Dept. of CS & Applications,  
Gandhigram Rural Institute, Gandhigram.

**Day 2: 4<sup>th</sup> August 2020**



***CNN- Demystified***

**Dr.P.Shanmugavadivu,**

**Head & Professor,**

Dept. of CS & Applications,  
Gandhigram Rural Institute, Gandhigram.

**Day 3: 5<sup>th</sup> August 2020**

***Demo on Basics of Python Programming***

**Ms.G.Kanimozhi & Mr.S.Lakshmanan**

Dept. of CS & Applications,  
Gandhigram Rural Institute, Gandhigram

**Day 4: 6<sup>th</sup> August 2020**

***Demo on ML & DL***

**Ms.G.Kanimozhi & Mr.S.Lakshmanan**

Dept. of CS & Applications,  
Gandhigram Rural Institute, Gandhigram

Organized By

**DEPARTMENT OF COMPUTER SCIENCE**

**Dates: 3<sup>rd</sup> August 2020 to 6<sup>th</sup> August 2020**

**Time: 10 am – 12 noon**

## **Report :**

The Department of Computer Science conducted a four day online **Workshop on Problem Solving With AI using Python** on 3<sup>rd</sup>,4<sup>th</sup>,5<sup>th</sup> and 6<sup>th</sup> of August 2020 . Eminent resource persons from Gandhigram Rural Institute, delivered lectures in this workshop. This workshop was focussed on the latest and most demanded topics which would help the participants in getting good opportunities in Industry and updating their knowledge with current technologies. The objective of this workshop was to offer basic training in Python Programming and provide Hands-on training on Convolutional Neural Network and Machine Learning(ML) & Deep Learning(DL) architectures using Python Programming in order to enable the participants to formulate data analytics projects ..

The topics of this workshop were Essentials of AI in NutShell, CNN – Demystified and demonstration on Basics of Python Programming, causing analysis of ML and DL algorithms using Python .

On the first day, resource person, **Dr.M.Mary Shanthi Rani, Asst. Professor**, Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram, delivered a lecture about essentials of AI in Nutshell in the workshop. The topic was covered on the basic concept of AI.

Next day, the resource person, **Dr. P. Shanmugavadivu, Head & Professor**, Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram, delivered a lecture on Convolutional Neural Network – Demystified. The topic covered such as Outgrowth of AI, Arena of AI, basic concept of CNN, ANN vs CNN, and CNN layers. CNN is the regularized version of Multilayer Perceptron. This session gave ideas about the CNN and real time applications of CNN .

The resource persons, **Ms.G.KaniMozhi & Mr.S.Lakshmanan** Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram, delivered demo on Basics of Python Programming and Machine Learning and Deep Learning on the third and fourth day of workshop. This leads to solving complex and dynamic real time problems. This workshop created opportunities to explore the promising avenue for research in Machine learning and Deep learning. More than 100 participants participated in this workshop. Finally certificates were issued to the participants.

## Resource Persons – sharing their screens

**ARENA OF AI**

Domains of AI are:

- Artificial intelligence, synthetic intelligence or computational intelligence
- AI research is an amalgamation of:
  - Computer science
  - Psychology
  - Philosophy
  - Neuroscience
  - Cognitive science
  - Linguistics
  - Operations Research
  - Statistics
  - Control Theory
  - Probability and Statistics
  - Optimization &
  - Logic

A diagram of a human head is shown with various AI fields inside, including: Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Robotics, Expert Systems, Fuzzy Logic, and Genetic Algorithms.

**OUTGROWTH OF AI**

The diagram shows a progression from Artificial Intelligence to Machine Learning to Deep Learning.

- ARTIFICIAL INTELLIGENCE**: A technique which enables machines to mimic human behaviour.
- MACHINE LEARNING**: Subset of AI technique which use statistical methods to enable machines to improve with experience.
- DEEP LEARNING**: Subset of ML, which makes use of computation of multi-layered neural networks.

**BREAK-THROUGHS IN AI #1 IBM DEEP BLUE (1996)**

On May 11, 1997, an IBM computer called IBM® Deep Blue™ beat the world chess champion Garry Kasparov, after a six-game match. Two wins for IBM, One for the champion and Three draws.

Behind the contest, however, was important computer science, pushing forward the ability of computers to handle the kinds of complex calculations needed to help discover new medical drugs; do the broad financial modeling needed to identify trends and do risk analysis; handle large database searches; and perform massive calculations needed in many fields of science.

**BREAK-THROUGHS IN AI #2 HUMANOID SOPHIA (2015)**

Sophia was introduced to the United Nations on October 11, 2017. Sophia was created by Hong Kong-based Hanson Robotics and can carry out a wide range of human actions. She is capable of making up to fifty facial expressions and can equally express feelings.

On October 25th, she was granted Saudi Arabian citizenship, making her the first humanoid robot ever to have a nationality. She has very expressive eyes and her Artificial Intelligence revolves around human values, including sense of humour.

World's first robot citizen Sophia to deliver talk at IT-BMH on Friday Sophia is a social humanoid robot, which can display more than 60 facial expressions. February 13, 2020 16:54 IST

World's "First Robot Citizen" Talks About Climate Change On India Visit Sophia said addressing event "Conversation with Humans"

**CONVOLUTIONAL NEURAL NETWORKS**

- Convolution is a point-wise multiplication of two functions to produce a third function.
- Primary purpose of convolution in CNN is to extract features from the input image.
- Matrix formed by sliding the filter over the image and computing the dot product is called the 'Convolved Feature' or 'Activation Map' or the 'Feature Map'.

The diagram illustrates the CNN architecture: Input Image → Convolution + Rectified Linear Unit (ReLU) → Max Pooling → Fully Connected Layers → Softmax.

**ANN Vs. CNN**

- ANN suffers from curse of dimensionality when it comes to high resolution images.
- CNN learns the pattern before doing the real classification.
- Uses filters to exploit spatial locality / patterns between neurons of adjacent layers.

The diagram shows the structure of an Artificial Neural Network (ANN) with Input, Hidden, and Output layers. Below it, the Convolutional Neural Network (CNN) architecture is shown with layers: Convolution, Pooling, Convolution, Pooling, Fully Connected, Softmax, and Output Probabilities.





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Mary Land, Madurai – 625 018

## CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms./Dr. \_\_\_\_\_

has participated in *Four Day On-line Workshop on* **PROBLEM SOLVING WITH AI USING PYTHON** organized by the Department of Computer Science, Fatima College (Autonomous), Madurai from 3<sup>rd</sup> August to 6<sup>th</sup> August 2020.

Dr. G. Germin Mary M.Sc., M.Phil., Ph.D.,  
Head of the Department



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