DEPARTMENT OF COMPUTER SCIENCE
TWO – DAY WORKSHOP –REPORT
Deep Learning in Computer Vision using Python Programming

Department of Computer Science conducted two day workshop on Deep Learning in Computer Vision using Python Programming on 23rd and 24th August 2019 in collaboration with GRIHAA (Gandhigram Research Incubator on Health Care and Agriculture Applications).

This workshop was focussed on 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 Programmingand provide Hands-on training on Machine Learning(ML) & Deep Learning(DL) architectures using Python Programming in order to enable the participants to formulate data analytics projects and products. The topics of this workshop were Introduction to Machine Learning and Deep Learning, Hands-on Python Programming Basics, Deep Learning Architectures for Computer Vision andDeep Learning using Python programming.

This workshop had three sessions on each day. The resource person, **Dr.M.MaryShanthi Rani, Asst. Professor,** Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram, delivered lecture about Machine learning and nuances of artificial neural network and deep learning in the first two sessions of the first day workshop.

In the first session, the topic was covered on the basic concept of machine learning which provides computers with the ability to learn without being explicitly programmed. In the second session, the topic was nuances of artificial neural network and deep learning. This session gave idea about the applications of ANN and basic elements of deep learning.

Third session, "Hands – on :Basics of Python Programming" was handled by **Ms.G.Kanimozhi&Mr.S.Lakshmanan ,** Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram. This session gave an outline about the elements of python programming.

In the second day, **Dr.P.Shanmugavadivu, Professor**, Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram delivered lecture on convolutional neural network and recurrent neural network in the first and second session of second day workshop. Artificial neural networks

are one of the main tools used in machine learning for finding patterns which are far too complex or numerous for a human programmer to extract and teach the machine to recognize.

The final session was Hands-On :ML& DL. The objective of final session wasto give insight to Python for Machine learning and Deep Learning and provide hands-on experience in selected applications. This leads to solve the complex and dynamic real time problems. This workshop created opportunities to explore the promising avenue for research in Machine learning and Deep learning.

TWO – DAY WORKSHOP
Deep Learning in Computer Vision using Python Programming
Dr.P.Shanmugavadivu, Professor & Dr.M.MaryShanthi Rani, Asst. Professor
Dept. of CS & Applications, Gandhigram Rural Institute, Gandhigram

FATIMA COLLEGE

(Autonomous)

(College with Potential for excellence
Re-Accredited with "A"Grade by NAAC (III CYCLE)
94th Rank in India Ranking 2019(NIRF) by MHRD)

Two Days Workshop
on

DEEP LEARNING IN COMPUTER VISION
USING PYTHON PROGRAMMING

Organized by

The Department of Computer Science
in collaboration with

GRIHAA
(Gandhigram Research Incubator on Health Care and Agriculture Applications)

You are Cordially Invited

Venue: Sanjose Seminar Hall
Date: July 23 & 24 ,2019

PROGRAMME

DAY I : 23.07.2019

8.30 – 9.30 a.m   : **Registration**

Inauguration

10.30 – 11.30 a.m : **Technical Session - I**
"INTRODUCTION TO MACHINE LEARNING"
Dr.M.Mary Shanthi Rani, Asst. Professor
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

11.40 – 1.00 p.m : **Technical Session – II**
"NUANCES OF ARTIFICIAL NEURAL NETWORKS & DEEP LEARNING (DL)"
Dr.M.Mary Shanthi Rani, Asst. Professor
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

1.00 – 1.45 p.m : **LUNCH**

1.45 – 4.45 p.m : **Technical Session - III**
"HANDS-ON:BASICS OF PYTHON PROGRAMMING"
Ms.G.Kanimozhi & Ms.S.Lakshmanan
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

DAY 2 : 24.07.2019

10.30 – 11.30 a.m : **Technical Session - IV**
"CONVOLUTIONAL NEURAL NETWORKS"
Dr.P.Shanmugavadivu, Professor,
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

11.40 – 1.00 p.m : **Technical Session – V**
"RECURRENT NEURAL NETWORKS"
Dr.P.Shanmugavadivu, Professor,
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

1.00 – 1.45 p.m : **LUNCH**

1.45 – 4.45 p.m : **Technical Session - VI**
"HANDS -ON : ML & DL"
Ms.G.Kanimozhi & Ms.S.Lakshmanan
Dept. of Computer Science & Applications
Gandhigram Rural Institute, Gandhigram

Total No. of Participants - 71

FATIMA COLLEGE (Autonomous), Madurai

<u>I MCA</u>

S. No.	Reg. No.	Name
1.	2018MCA01	Nagapavithra N
2.	2018MCA02	Sneha V

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II MCA

S. No.	Reg. No.	Name
1.	2017MCA01	Dhoothani J
2.	2017MCA02	Kalaiselvi B
3.	2017MCA03	Kanimozhi M
4.	2017MCA04	Naveena Devi R
5.	2017MCA07	Sowmiya V
6.	2018MCA01L	Abinaya M
7.	2018MCA02L	Abinaya R
8.	2018MCA03L	Alaa Sushana N
9.	2018MCA04L	Annapoorani G
10.	2018MCA05L	Antony Steffi M
11.	2018MCA06L	Deepthi N S
12.	2018MCA07L	Divya Meenakshi M
13.	2018MCA08L	Jenitha J
14.	2018MCA09L	Jeyapreetha R
15.	2018MCA10L	Logamani M
16.	2018MCA11L	Meenakshi P
17.	2018MCA12L	Meenalakshmi S
18.	2018MCA13L	Merlin Josi J
19.	2018MCA14L	Nagalakshmi Alias Monika D
20.	2018MCA15L	Navodhitha N
21.	2018MCA16L	Nivethitha
22.	2018MCA17L	Perin Princy D
23.	2018MCA18L	Priya R
24.	2018MCA19L	Rajeswari S
25.	2018MCA20L	Saranya M
26.	2018MCA21L	Shantha P
27.	2018MCA22L	Srimathi S
28.	2018MCA23L	Srividhya C S
29.	2018MCA24L	Umayal S
30.	2018MCA25L	Yohamadhu R
31.	2018MCA26L	Yuvashree S
32.	2016MCA60L	Jasmine Begam J

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I M.SC (Computer Science)

S.NO	REG. NO.	NAME OF THE STUDENTS
1	2019MSCB01	AKILA JENIFER P
2	2019MSCB02	APARNA DEVI K
3	2019MSCB04	DEEPIKA K
4	2019MSCB06	INDHUMATHI R
5	2019MSCB07	JEYA BHARATHI J
6	2019MSCB08	KALPANA V
7	2019MSCB10	LOGITHA E
8	2019MSCB11	MONISHA P
9	2019MSCB12	MUTHULAKSHMI A
10	2019MSCB13	PAVITHRA M
11	2019MSCB14	RAJESWARI E
12	2019MSCB15	RAJESWARI M
13	2019MSCB16	SANTHIA N S
14	2019MSCB17	SUBARIYA BANU A
15	2019MSCB18	SUGASHINI K
16	2019MSCB19	SUVETHA C
17	2019MSCB21	EMERIN PRICILLA A
18	2019MSCB22	PRITHI S
19	2019MSCB24	PRAVEENA S
20	2019MSCB25	VISHNUPRIYA R
21	2019MSCB26	PRATHIKSHA K
22	2019MSCB27	MONISHA S

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I M.SC (Computer Science)

S.NO	REG. NO.	NAME OF THE STUDENTS
1	2018MSCB01	BALA MAHESWARI R
2	2018MSCB02	DEVAGNANAPRIYANKA A
3	2018MSCB03	FAIRLIN CHRISY V
4	2018MSCB04	KEERTHANA J
5	2018MSCB05	POORANI V
6	2018MSCB06	RATHINAPRABA U
7	2018MSCB07	SHALINI E A
8	2018MSCB08	SRUTHI PRIYA R
9	2018MSCB09	VITHYA U
10	2018MSCB10	HELEN CATHERIN M
11	2018MSCB11	KALPANA JULIE V P
12	2018MSCB12	PAVITHRA R T
13	2018MSCB13	SURYAPRABHA P
14	2018MSCB14	JASMINE ROOBA X
15	2018MSCB15	MEGALA G