

Machine Learning & Artificial Intelligence in Data Science (MAD-2 2020)

1st -5th October 2020

Registration Fee

There is no registration fee for the programme.

Eligibility

The programme is open to all members of AICTE/UGC affiliated Institutes/Universities i.e. Faculty Members, Research Scholars, PG Students.

Selection and Certification Criteria

Selection will be done based on first-cum-first-serve basis, priority will be given to those who have not attended the ATAL FDP earlier and the confirmed candidate will be notified on receipt of registration form latest by 22nd September 2020.

Important Date

Last date for application
15th September 2020

How to Apply

The participants have to submit duly filled registration form which is also available in the registration link.

Registration Link

www.aicte-india.org/atal

One Week Online Faculty Development Programme

On

Machine Learning & Artificial Intelligence in Data Science (MAD-2 2020)

Organized by



Department of CSE & IT

Jaypee Institute of Information Technology

(Declared Deemed to be University under Section 3 of UGC Act)



Sponsored by

AICTE, New Delhi

From

1st-5th October 2020

COORDINATORS FOR THE FDP:

Dr. Devpriya Soni (Ph: 9312007114)
Dr. Himani Bansal (Ph: 9899973621)

TEAM MEMBERS:

Dr. Shurti Jaiswal
Pulkit Mehndiratta
Ambalika Sarkar

OBJECTIVE

In the current times, the humongous volumes of data present all around us intrigue us to do more in this field. Data science, based on the principles of statistics gets wings to itself, when deployed with concepts of machine learning and artificial intelligence. Activities like social media, sensors, mobile devices, networked devices, internet transactions, military and other applications requires indigenous real time analysis to mine even the minuscule of nuggets of knowledge from the vast heap of information. ML & AI go hand in hand with Data Science and foreseeing the for intelligent systems which can learn by themselves and improve their performance sustainably, this course has been designed. Participants will get to know the techniques in data analytics, machine learning and thus infusing intelligence into the systems deployed in real world.

CONTENT

Learning Techniques	Regression Analysis	Clustering & Visualization
Optimization Decision Making	Deep Learning	Web Crawler & Scraper
Data preprocessing	Twitter API	Feature Analysis
R Programming	TensorFlow	Neural Networks

WHO SHOULD ATTEND?

- Industry personnel who want to get exposure to this new technology.
- Faculty and research scholars who wish to use Data Science as their research field

GUIDELINES

- Coordinator decision will be final regarding the selection of participants.
- Resource Persons are experts from Industries /Universities and Institutes of repute.
- Minimum 80% attendance and 60% marks in the quiz (at the end of FDP) are compulsory for certification.

For Further information mail us at: mad2020jiit@gmail.com

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Jaypee Institute of Information Technology, Noida

Department of Computer Science and Engineering

Online Faculty Development Programme (FDP) On Machine Learning & Artificial Intelligence in Data Science (MAD 2020)



1st October to 5th October 2020

Tentative Schedule



DAY 1 – 1 st October 2020		
S.No.	Session	Topic
1	09:50-10:00	Participants Entry
2	10:00-10:30	Inauguration
3	10:30-12:00	Machine Learning and Applications by Prof. B. Chandra from IIT, Delhi
4	12:00-13:00	Lunch
5	13:00-14:30	Introduction to Python Programming by Dr Shruti Jaiswal
6	14:30-16:00	Introduction to Learning Techniques with a Case Study of Supervised Learning using Python by Mr. Amit Sharma from ATMECS, Hyderabad

DAY 2 – 2nd October 2020

S.No.	Session	Topic
1	10:00-11:30	Various Unsupervised Learning Techniques with detailed discussion on Clustering Techniques and a Case Study by Dr. Devpriya Soni from IIIT, Noida
2	11:40-13:10	COVID -19 data analysis and visualizations by Mr. Pulkit Mehndiratta from IIIT, Noida
3	13:10-14:00	Lunch
4	14:00-15:30	Fuzzy system Designer using LabVIEW with practical system designing of Artificially Intelligent Greenhouse Controller by Dr. Nikhil Marriwala from Kurukshetra University, Kurukshetra.

DAY 3 – 3rd October 2020

S.No.	Session	Topic
1	10:00-11:30	Scrapping, Preprocessing and Analyzing Textual Data using Python by Dr. Devpriya Soni from IIIT, Noida
2	11:40-13:10	Medical Image Analysis using ML by Ms. Shipra Madan from IIT, Delhi
3	13:10-14:00	Lunch
4	14:00-15:30	Predict future product prices using facebook prophet by Mr. Pulkit Mehndiratta from IIIT, Noida

DAY 4 - 4th October 2020

S.No.	Session	Topic
1	10:00-11:30	Time Series Analysis and Object Detection in Tensorflow by Mr. Manoj Kumar from Wirpo, Bangalore

2	11:40-13:10	Image Analysis using Deep Learning Techniques by Ambalika Sarkar from IIIT, Noida
3	13:10-14:00	Lunch
4	14:00-15:30	Yoga for Holistic Health by Volunteer from Isha Foundation.
DAY5 – 5th October 2020		
S.No.	Session	Topic
1	10:30-12:00	Regression Analysis (Random Forest) using R by Dr. Prabin Meher from Indian Agricultural Statistics Research Institute, New Delhi
2	15:00-16:00	Quiz and Feedback
3	16:00-17:30	Strategic role of Alternative data in Health domain By Prof. Bhuvan Unhelkar from University of South Florida, Sarasota-Manatee Campus (USFSM), USA
4	17:30-17:50	Valedictory