

One Week Workshop-cum-training program

On

Understanding Deep Learning

Date: 10th March, 2021 – 15th March, 2021

Objective: As we know that neural network and deep learning are the most powerful tools in the field of Artificial Intelligence (AI). The workshop is aimed at imparting knowledge and training on the machine learning, foundations, and advances in deep learning. The main objective of this workshop is to make the participants familiar with the Emerging applications of machine learning and deep learning. Participants will explore and learn about the machine learning basics, overview of Different neural network architectures, Deep learning essentials, Convolutional neural networks, Autoencoders, GANs, Recurrent neural networks, Recent trends, Applications and many more. Hands-on sessions will also be conducted for some real life problems, on Python platform.

The workshop will be conducted in online mode.

Registration form for link: <https://forms.gle/KC5Q9ucVQsnTxbvf9>

Course Contents:

- Machine Learning Basics
- Neural Network Architectures
- Convolutional Neural Network Design and Implementation
- Recurrent Neural Network Design Architectures
- Deep Reinforcement Learning
- Feature Extraction and Pre-processing.
- Machine Vision and Augmented Intelligence
- Deep Learning in Healthcare
- Deep Learning Applications in Data Science etc.

Resource Persons

- Professors from IITs, IIITs, NITs
- Experts from Industries
- Faculty from MNNIT Allahabad

Important Date

Registration Deadline : 5th March 2021

Registration Fee (GST inclusive)

U.G. Students 590/-

P.G. Students 708/-

PhD Students 944/-

Faculties and Others 944/-

Registration fee can be submitted in form of D.D. in favour of
"WCTP" payable at Allahabad

OR

NEFT/Mobile Banking

A/C Name: WCTP

A/C Number: 77660100002861

Bank Name: Bank of Baroda

Bank Branch: MNNIT Allahabad

IFSC Code of Branch: BARBOVJMNRE

Contact

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Course Coordinator's

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Course Convener

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Tentative Schedule

- There will be two sessions per day

| Session Date | 1st Session (11:15 AM – 12:45 PM) | 2nd Session (04:30 PM – 06:00 PM) |
|-------------------------|---|---|
| 10 March 2021 | Inauguration | The AI World |
| 11 March 2021 | Machine Learning Basics | Hands-On 1 |
| 12 March 2021 | Towards Deep Learning | Hands-On 2 |
| 13 March 2021 | DNN for Computer Vision | Hands-On 3 |
| 14 March 2021 | Overview of different DNN Architectures | Hands-On 4 |
| 15 March 2021 | Recurrent Neural Network | Valedictory |