

A Five Day Workshop on Artificial Intelligence for ALL

Date: 17 TO 21 JUNE 2019

Venue: @IIITDM Kancheepuram, Melakottaiyur, Vandalur-Kelambakkam Road, Chennai - 600 127

1 Objective

This workshop aims to introduce and provides a learned experience of broad range of the techniques used in Artificial Intelligence and Machine learning. Starting with the basics, the workshop progresses to the latest techniques and intriguing research areas of present day Artificial Intelligence technological landscape. The workshop aims to provide a solid foundation in theory as well as practical knowledge to approach a real-world problem involving machine learning and Artificial Intelligence.

2 Organized By

Center for High Performance Reconfigurable Computing, Department of Computer Science and Engineering, Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram. IIITDM Kancheepuram is an Institute of National Importance under Ministry of Human Resources Development, Govt. of India. IIITDM Kancheepuram is established in the year 2007 with a vision to excel as a center for excellence in IT enabled Design and Manufacturing. This workshop is aligned to the vision statement of the Institute to develop the human resources in artificial intelligence based systems and processor architecture.

3 Topics to be Covered

- Introduction to Machine Learning, Classification of Machine learning Problems, Probability Theory and optimization. Linear Regression, Regularization (Ridge and Lasso) and Hands on.
- Classification Problems, Perception, Logistics Regression, More Classification, Kernel Methods/ SVM, Decision trees and Hand on.
- Introduction to Deep Learning: neural networks, representation, back propagation. Hands on deep learning framework, hands on First Neural net (pytorch).
- Deep learning: Computer Vision, Convolution neural nets, different architectures, transfer learning and hands on CNN.
- Introduction to NLP: recurrent nets, LSTM/GRU, Word Embeddings, Introduction to latest architectures and hands on RNN.

4 Target Audience

Faculty/Scientists/Researchers/PG and UG Students working on artificial intelligence models. Free Internship opportunity at HPRC will be given for the interested UG and PG student participants.

5 Prerequisite

Participant should have the working knowledge of data structures, algorithms and probability theory. Basic understanding of hardware architectures.

6 Background of Previous Events

CHRC has very good expertise in organizing the workshop in a well planned manner. The details of the previous work-

shops, budget and feedback from the participant can be found at <http://web.iiitdm.ac.in/noor/athprcse.html>

7 Registration Details

- Online Registration Open from April 10, 2019.
- Registration Link:
<http://web.iiitdm.ac.in/noor/index.html>
- Registration Closes by June 15, 2019.

8 Registration Fees

R&D Labs/ Faculty/ PSUs With Hostel Accommodation	Rs. 8000*
R&D Labs/ Faculty/ PSUs Without Accommodation	Rs. 6000*
Research Scholars, PG & UG Students with Accommodation	Rs. 7000*
Research Scholars, PG & UG Students without Accommodation	Rs. 6000*

* Inclusive of 18% GST as per GoI norms and 15% Institute Overheads.

9 Important Details

- NEFT or IMPS Account Details:
IIITDM Educational Events; Acc.No:35594334673;
State Bank of India; Kandigai Branch; IFSC
code: SBIN0018365.
- Registration Fee covers FOOD and HOSTEL ACCOMMODATION for all the 5 days. No TA/DA will be provided.

10 Contact Info:

Dr Noor Mahammad Sk

Workshop Organizing Chair
AI Workshop

Indian Institute of Information Technology,
Design and Manufacturing (IIITDM) Kancheepuram
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For enquiry and clarification, please contact:

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How to Reach Venue (www.iiitdm.ac.in):

IIITDM Kancheepuram Campus in Chennai on Vandalur Kelambakkam Road. It is 9KMs from Vandalur Zoo toward East Direction, Landmark: KANDIGAI.