



Center of Training and Placement
Dr B R Ambedkar National Institute of Technology
Jalandhar (Punjab)

TEQIP-III sponsored
One Week
Online Short Term Course
On

Machine Learning using Python
(11-15 September 2020)

Organizing Team



PATRON
Prof. L. K. Awasthi
 Director, NIT Jalandhar



CO-PATRON
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 Professor Incharge, T&P Cell



CO-PATRON
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CHIEF CONVENER
Prof. Ajay Gupta
 Head, Training Cell



CONVENER
Dr Kapil Kumar Goyal
 Assistant Training Officer



COORDINATOR
Dr Kuldeep Kumar
 Assistant Training Officer



COORDINATOR
Dr Shyamkiran Kaur
 Assistant Training Officer

Registration Details:

- NITJ Students/Faculty- No Registration Fees
- Outside Institute Participants - Rs. 100
- **Register on the following link (click on the link to register):**
<https://forms.gle/LEgZsTp5rZWv2kNU7>
- Last Date of Registration- September 9, 2020
- Prior registration is mandatory to attend STC
- E-certificate will be issued to the participants on successful participation of the course
- Google meet link and other instructions will be shared via e-mail on September 10, 2020 to all registered participants.

Participants are expected to have access to a Laptop/Desktop PC for the hands-on sessions during the workshop.

Course Content:

- **Day 1: Introduction to Machine Learning and Python Programming**
 - Introduction to machine learning, Big data, need of ML
 - Running machine learning under Linux platform
 - Role of Python and R programming in this domain
 - Introduction of Python syntax and programming logics
 - Deep dive with Supervised and Unsupervised learning
 - Basic of python and why python for machine learning
- **Day 2: Installation of Python Libraries in System**
 - Numpy and Matplotlib
 - Use of Numpy in Data Science
- **Day 3: Supervised and Unsupervised Learning - Working with Python for ML**
 - Types of learning, Classification, regression, Training your machine with real-time datasets
 - Project:- Creating own ML datasets and it's implementation
- **Day 4: Working with classification algorithms**
 - KNN Algorithm, KNN algorithm with deep-dive, Pandas, Use of data frames with ML, Datasets reading from Scikit-Learn
 - Project:- Designing of ML system for real-time datasets
- **Day 5: Deep Learning, Image search, and recognition**
 - OpenCV: Image Processing with Python
 - Neural networks,
 - Training image datasets, Recognition of different images to detect face
 - Project:- Face Recognition System

Contact Us

For any query contact the STC Coordinators/Conveners

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