

## Short Course/FDP

on

### " Machine Learning and Its Applications"

under the aegis of

**Electronics & ICT Academy**

**IIT Roorkee**



In Association with

**Graphic Era University, Dehradun**



**April 10-17, 2019**

**Recognized by AICTE at par with QIP for recognitions/credits**

**Experts from  
Devarty  
Technologies**

**Guest Lectures  
from IIT  
Roorkee**

**Supported by**

Ministry of Electronics & Information Technology  
Government of India

**Certificates to participants by E&ICT  
Academy IIT Roorkee**



**Class will be delivered through  
online platform**

## Why Machine Learning ?

Machine Learning has become an essential part of everyday life and emerged as a critical component of modern business intelligence in recent years. Data scientists have a number of options to analyze data using statistical methods. One of the most convenient and powerful methods is to use the Python programming language. This course will help you to learn how to tackle data analytics problems using Python. Participants will be able to understand how data is created, stored, accessed. What you learn in this course will give you a strong foundation in all the areas that support analytics. Participants will also learn how to compute various statistical measures, create meaningful data visualizations, Python models to predict expected future outcomes.

### Objective of the Course

- Introduction of machine learning and its real-life applications.
- Understanding of statistics and Python programming which will help the participants to carry out various analytical studies.

### Benefits and Outcomes of the Course

- Learn the importance of data.
- Learn the various aspects of data handling and how information can be extracted from data.
- Carry out predictions – how to predict, how to analyse predicted values, discuss the importance of variables in a dataset.
- Industries and domain where analytics are used extensively.
- Guide/Mentor the students to seek job opportunities in data analyst fields.

**Registration Link**

<http://tiny.cc/eictml>

## Focus Areas

- Introduction to Statistics and Machine Learning (Supervised and Unsupervised)
- Linear Regression, Logistic Regression
- Decision Tree, Random Forest
- Learn the simple intuition behind Support Vector Machines
- Introduction to Clustering and Outliers
- K-means
- Introduction to Heuristic Approaches of ML
- Particle Swarm Optimization

### Program Features

- The program is split into lectures and labs/hands-on sessions.
- Hands-on experience on basic and advanced-level topics.
- Interaction & learning with experts from academia & industry.
- Certificates to participants by E&ICT Academy IIT Roorkee.

### Registration Fee

Faculty members: ₹ 250/-

Research scholars: ₹ 500/-

Persons from Industry: ₹ 1500/-

### How to make payment

<https://eict.iitr.ac.in/Paymentdetails.html>

Read the instruction for payment before filling the online registration form.

**Coordinator IIT Roorkee:**

- Dr. Sanjeev Manhas, PI, E&ICT Academy, IIT Roorkee

**Local Coordinator:**

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