

Summer Training Program

on

Data Science and Machine Learning using Python

July 13- July 26, 2021

[Evening Batch - 5 PM onwards]

under the aegis of

Electronics & ICT Academy
IIT Roorkee



Supported by

Ministry of Electronics & Information
Technology
Government of India



Experts from Academia/Industry

Prof. Partha Partim Roy, IIT Roorkee

Mr. Bipul Shahi, Diginique TechLabs

Expert talks from Industry

Principal Investigator

Prof. Sanjeev Manhas, IIT Roorkee

Certificates to participants by E&ICT
Academy IIT Roorkee



Class will be delivered through
online platform

Why ML & DS ?

In recent years, Data Science and Machine learning has emerged as powerful techniques for solving problems involving huge loads of data. Machine Learning algorithms help towards taking a better decision. This course is designed to give you in-depth knowledge of Machine Learning concepts including the essentials of statistics required for Data Science and Python programming. We will walk you step-by-step into the world of Machine Learning. With every lecture, you will develop new skills and improve your understanding of this challenging yet lucrative sub-field of Artificial Intelligence.

- According to Kdnuggets- Businesses will need one million ML engineer/ data scientists in near future
- Data Scientist has been named the best job – Forbes

Objectives of the course

- To provide foundation of Python scripting and its principles.
- To design and implement real-world inspired Machine Learning algorithm applications.
- To provide insights about the roles of a data scientist and enable you to analyse big data.
- To teach techniques and tools for transformation of data, understand data mining and data visualization and optimization.
- Project work with real life problems (Hand written optical image recognition and Exploratory analysis on Covid 19).

Course Features

- 40+ Hours of live instructor-led classes
- Lectures from IIT Roorkee, Hands-on from industry experts
- Expert talks from industry
- Career guidance sessions from the experts
- 3 hrs of doubt clearing sessions.
- Access to learning material and video lectures
- Certificates by E&ICT Academy IIT Roorkee

Focus Areas

- Introduction to packages in Python
- Tuples, Set, Dictionaries & Functions
- Numpy, Scipy, Pandas, EDA
- Supervised and Unsupervised Learning
- Statistics, Hypothesis Testing, Distributions
- Linear Regression, Logistic Regression
- Decision Tree, Random Forest, Association Rule Mining and Recommendation System
- Naïve Bayes Classifier, Support Vector Machines, Basics of Neural Network and Deep Learning
- Server Deployment using Flask
- Projects and Assignments

Prerequisites

- No experience is required, but fundamental knowledge of any programming language would be helpful.

Registration Link

<http://tiny.cc/dz82uz>

Registration Fee

Fees: ₹ 8000/participant, non refundable
(Applicable for all)

Note: Refund will be done in case of course cancellation only, with in 20 working days

How to make payment

<https://eict.iitr.ac.in/instruction-for-payment/>

Conference Code: EICTIITR-SUM-25

Course Coordinators

- Prof. Partha Pratim Roy, CSE Department, IIT Roorkee
- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee

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