

Online Certification Course

on

Machine Learning using Python

19 January - 01 February, 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. R. Balasubramanian, IIT Roorkee

Prof. Partha Pratim Roy, IIT Roorkee

Mr. Bipul Shahi from 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 Machine Learning ?

In recent years, Machine learning has emerged as powerful techniques for solving problems involving huge loads of data. Machine Learning algorithms help towards taking a better decision. Machine learning provides algorithms and tools that are useful for solving classification and regression tasks.

- The whole data analysis process is a cycle of trial and error: design features and clean and normalise the data, reduce input dimensionality

Objective of the course

- Provide foundation of Python scripting and its principles
- Design and implement of real-world inspired ML algorithms applications.
- Boost your career prospects through innovative and independent learning
- Project work with real life problems (Hand written optical image recognition and Exploratory analysis on Covid 19)

Programme Features

- 40+ Hours live instructor-led classes.
- Lectures from IIT Roorkee, Hands-on sessions from industry experts.
- Career guidance sessions from the experts.
- Session on incubation and entrepreneurship
- Expert talks from Industry.
- 3 hrs of doubt clearing sessions on weekend.
- 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 Machine Learning
- Statistics, Hypothesis Testing, Distributions
- Linear Regression, Logistic Regression
- Decision Tree, Random Forest
- Support Vector Machines
- Heuristic Approaches of ML
- Projects and Assignments

Prerequisites

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

Registration Link

<http://tiny.cc/onnotz>

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

Account Name - Research Project, IIT Roorkee
Account No. -33012172097, IFSC- SBIN0001069

Course Coordinators

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- Prof. Sanjeev Manhas, IIT Roorkee, ECE Department, IIT Roorkee

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