Electronics & ICT Academy
IIT Roorkee

Faculty Development Program
on
"Machine Learning and Data Analytics with Python"

E C & T
IIT Roorkee

In Association with

Ajay Kumar Garg Engineering College, Ghaziabad

AKGEC

4 Dec. - 8 Dec. 2018

Experts from Academia/Industry

| Guest Lecture | Mr. Saurabh Agarwal |
| IIT Roorkee | Vowel Softech |

Supported by

Ministry of Electronics & Information Technology
Government of India

Venue

CSE Department
Ajay Kumar Garg Engineering College
27th KM Stone, Delhi - Hapur Bypass Road,
Adhyatmik Nagar, Ghaziabad- 201009.

Why Machine Learning and Data Analytics with Python?

Data analysis 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 option 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 analysis problems using the Python. Participants will 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 data analytics, machine learning and it's 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 analyses 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.

Focus Areas

- Introduction to Python, Variables Numbers, Strings, Lists, Tuples, Dictionary, Sets, Operators, Functions and Regular Expressions.
- Working with files, Numpy, Scipy and Pandas.
- Working with data, Splitting data, Data analytics workflow, Machine learning algorithms, Linear regression, Logistic regression, Decision Tree / Random Forest, Support Vector Machine, kNN, ML algorithms, Other aspects of data analytics.
- Assignment/Mini project based on data analytics.

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.

Coordinators

IIT Roorkee

Dr. Sanjeev Manhas, PI, E&ICT Academy

AKGEC Ghaziabad

Er. Vikas Kamra, Asst. Prof. (CSE)
Mob. +91-92155-11511

Who Can Attend ?

Program is open to faculty members/research scholars/PG students from colleges/universities, and industry personnel working in the concerned/allied discipline.

Registration Fee

Faculty members: ₹ 2,500/-
Research scholars: ₹ 2,500/-
Persons from Industry: ₹ 3,000/-

How to make payment

Offline: DD in favor of "Dean SRIC IIT Roorkee" payable at Roorkee
"OR"
Online: (https://www.onlinesbi.com/prelogin /icollecthome.htm?corpID=365641)
Read the instruction for payment before filling the online registration form.

How to Apply

Step 1: Make Payment
Step 2: Participants may fill registration form through Academy website (http://eict.iitr.ac.in).
OR
Step 2: Send a duly filled-in registration form along with Demand Draft to Academy address.
Mr. Prateek Sharma, EICT Academy, ECE Department, IIT Roorkee-247667

Important Dates ⊙

Last Date For Registration : 26 Nov. 2018

EICT Academy IITR

Electronics and ICT Academy (E&ICT) at IIT Roorkee (funded by Ministry of Electronics and Information Technology) aims to enrich and upgrade teaching and research competences of engineering faculties of institutes/colleges by conducting courses and workshops in fundaments as well as emerging areas of E&ICT and enabled areas. The programs are conducted by well-known industry partners, resource persons from leading academia and experts from renowned R&D organizations.

Activities of the Academy

- Specialized training on basic and advanced level topics with hands-on experience in the emerging areas of Electronics & ICT.
- Setup the activity centers to conduct FDPs locally at institutes/colleges.
- Curriculum development for the industry.
- Continuing Education Programme for students/working professionals.
- Design, develop and delivery of specialized modules for specific research areas in industry.

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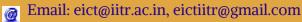Dates: 4 Dec. – 8 Dec. 2018

REGISTRATION FORM

Applicant Name _____
Gender:_____
Category (GEN/OBC/SC/ST): _____
Designation: _____
Name and Address of the Organizatio/Institute: _____
_____
_____
City/Town: _____
Email: _____
Phone Number: _____
Do you need Accommodation? (Yes/No):_____
DD Number:_____
Date: _____
Issuing Bank:_____
Payable at: _____

Signature of the Applicant

Contact Us

Electronics and ICT Academy, IIT Roorkee
Roorkee – 247667, (Uttarakhand) INDIA
☏ Ph. +91-1332-28 6457, +91-7078627392
@ Email: eict@iitr.ac.in, eictiitr@gmail.com
🌐 Website: http://eict.iitr.ac.in

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