

## PROGRAM FEATURES

- \* This program is split into lectures and hands-on practical sessions.
- \* Lab. experiments will be performed on basic & advanced level topics .
- \* Interaction with experts from E&ICT Academy, IIT Roorkee.
- \* Practical learning on latest technologies from industry experts.
- \* Certificates to the participants from E&ICT Academy, IIT Roorkee.

## PAYMENT DETAILS

Demand Draft in favour of "Dean SRIC IIT Roorkee" payable at Roorkee.

"OR"

Make online payment on:

<https://www.onlinesbi.com/prelogin/collecthome.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 the registration form available on the link <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.

## AJAY KUMAR GARG ENGINEERING COLLEGE

### CHIEF PATRON:

Dr. R. K. Agarwal, Director, AKGEC, Ghaziabad

### FDP CONVENERS:

Dr. Sunita Yadav (HOD, CSE), AKGEC, Ghaziabad

Dr. Anu Chaudhary (HOD, IT), AKGEC, Ghaziabad

Dr. Sanjeev Manhas (PI, E&ICT), IIT Roorkee

### FDP ORGANIZER:

Er. Vikas Kamra (Asst. Prof., CSE), M. 92155-11511

### FDP COORDINATORS:

Dr. Arun Kumar Yadav (95824-15886)

Dr. Sonam Gupta (81266-80787)

### ORGANIZING COMMITTEE:

Er. Ajay Kumar

Er. Bihari Nandan Pandey

Dr. Charu Agarwal

Er. Lipika Goel

Er. Jaykant Pratap Singh Yadav

## REGISTRATION FEES

Faculty Members: Rs. 2,500/-

Research Scholars: Rs. 2,500/-

Persons From Industry: Rs. 3,000/-

\* Last Date For Registration: 26th November, 2018

\* Paid accommodation will be provided subject to availability.

## WHO CAN ATTEND

Program is open to Faculty Members and Research Scholars, PG Students from Colleges and Universities and Industry Personnel working in the concerned / allied discipline.

## EXPERTS FROM

\* IIT Roorkee

\* Vowel Softech

One Week

Faculty Development Program

on

MACHINE LEARNING AND  
DATA ANALYTICS  
WITH PYTHON

Date: 4th to 8th December, 2018

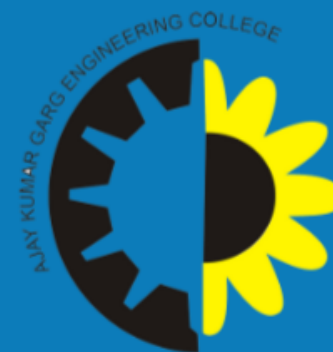
(Conference Code: EICT-ML)

Organized By:

Department of Computer Science & Engineering  
and  
Department of Information Technology

AJAY KUMAR GARG ENGINEERING COLLEGE

27th KM Stone, Delhi-Hapur Bypass Road,  
Adhyatmik Nagar, Ghaziabad-201009.



in association with:

Electronics & ICT Academy,  
IIT Roorkee.



## ABOUT COLLEGE

Ajay Kumar Garg Engineering College (AKGEC), Ghaziabad is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow, and is approved by the All India Council for Technical Education. The college was established in 1998 and offers B.Tech courses in seven disciplines of Engineering namely Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Civil Engineering. The college also offers postgraduate course in M.Tech in Automation and Robotics, Electronics & Communication Engineering, Computer Science, Electrical and Electronics Engineering, VLSI Designs and Mechanical Engineering. The college is accredited by NAAC.

The college has set up India's first Robotic Training Centre in collaboration with KUKA Robotics of Germany. In addition to this, AKGEC is the only institute have the following state of the Arts Centres of Excellence in collaboration with eminent multinational companies to provide industry relevant training and project exposure which offers Global Certification to enhance Global employability of students.

- AKGEC-NI LabVIEW Academy
- AKGEC-BOSCH Rexroth Centre of Competence in Automation Technology
- AKGEC-JANATICS Industrial Pneumatics Knowledge Centre
- AKGEC-SIEMENS Product Lifestyle Management Centre of Excellence
- AKGEC-AIA Competence Development Centre in Integrated Automation.

## MACHINE LEARNING AND DATA ANALYTICS WITH PYTHON

Python is often described as simple to learn, which is a big part of its appeal for any applied use, including machine learning systems and data analytics. Programmers describe Python as having a favorable complexity performance trade-off and describe how using Python is more intuitive than some other languages, because of its accessible syntax. Python also has particular tools that are extremely helpful in working with machine learning systems and data analytics.

Python's increased use in Data Science applications has situated it in opposition to R, a programming language and software environment specially designed to execute the sorts of data analysis tasks, Python can now handle.

Data analytics refers to qualitative and quantitative techniques and processes used to enhance productivity and business gain. Data is extracted and categorized to identify and analyze behavioral data and patterns, and techniques vary according to organizational requirements. Data analytics is also known as data analysis.

Data analytics technologies and techniques are widely used in commercial industries to enable organizations to make more informed business decisions and by scientists and researchers to verify or disprove scientific models, theories and hypotheses.

Data analysis is an internal organizational function performed by Data Analysts that is more than merely presenting numbers and figures to management. It requires a much more in-depth approach to recording, analyzing and dissecting data, and presenting the findings in an easily-digestible format. With a data analysis course you'll be able to provide a company with decision-making insight into the areas such as predict customer trends and behavior analyses, interpret and deliver data in meaningful ways, increase business productivity and drive effective decision-making.

Machine learning is an application of artificial intelligence (AI) that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. Machine learning focuses on the development of computer programs that can access data and use it learn for themselves. The process of learning begins with observations or data, such as examples, direct experience, or instruction, in order to look for patterns in data and make better decisions in the future based on the examples that we provide.

## OBJECTIVE

1. Introduction of data analytics, machine learning and its real life applications .
2. Understanding of Python programming language and its use in statistics and analytical study .