Faculty Development Programme on Data Science for IoT

Jointly organized by

AICTE Training And Learning (ATAL) Academy Programmes & Data Analytics Lab, IIIT Allahabad

(9th - 13th October 2020) URL: https://diot.iiita.ac.in

Venue: Indian Institute of Information Technology, Allahabad, Prayagraj (UP)

(An event under IIIT-A beyond 20 by 2020)

About the Programme

Data science for IoT is a multi-disciplinary area that uses scientific methods, algorithms and systems to extract hidden knowledge and insights from data (Structured and Unstructured). It is the study of where information comes from, what it represents and how it can be transformed into a valuable resource in the creation of business and IT strategies. Mining large amounts of structured and unstructured data from IoT infrastructure to identify patterns can help an organization in many ways. Data Science is confluence of mathematics, statistics and computer science disciplines, and incorporates techniques like machine learning, cluster analysis, data mining and visualization. Hence, it is important to bring awareness among researchers & academicians and train manpower on datasciences for IoT to do innovative research work, projects, and create knowledge base.

Objectives of the Programme

- To disseminate the knowledge of data analysis & IoT among students, researchers and academicians.
- To provide conceptual understanding of how data sciences can be used for IoT to innovate and improve business processes.
- The create awareness and interest in this technology among students, and researchers.
- To focus on providing the researchers and students insight of overall components of data science & IoT.

About IIIT-Allahabad and Data Analytics lab

The institution was founded in 1999, and in the following year received university status and the right to award its own degrees. In 2014, the IIIT Act was passed, under which IIIT-A and four other Institutes of Information Technology funded by the Ministry of Human Resource Development were classed as Institutes of National Importance. Data Analytics Laboratory under Department of Information Technology, IIIT- Allahabad is established with the vision to solve the data sciences and big data related challenges faced by the individuals, Government and Non-Government organization & industries. Various research areas in the field of Data sciences is identified and research is initiated to fulfill the data analytics requirements. **Data Analytics Lab** is started to provide necessary infrastructure to the students of IIIT-Allahabad to carry out their research in the field of data sciences.

Registration Process

Interested candidates can register through the registration link at (paste the link in browser):
`https://www.aicte-india.org/atal`

Participants

Academicians, Students, and Researchers, who are interested in Data analysis and IoT can participate in the event.

Speakers

Experts from IITs, BHU, MNNIT - Allahabad, SHUATS - Allahabad, and IIIT - Allahabad

Topics to be Covered

- Concept of Data Sciences
- IoT Fundamentals and its Issues
- Data Analysis in IoT Domain
- Probability Theory & Statistics
- Linear Algebra (Vectors and Matrices)
- Big Data Algorithms & Analysis for IoT
- Visualization of Data
- Machine Learning Algorithms for IoT
- Classification and Regression
- Security Issues in IoT
- Deep Learning Techniques used in IoT

Co-Ordinators

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Correspondence

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