

Faculty Development Programme on Application Areas of Data Analytics

Jointly organized by

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

(23rd - 27th October 2021)

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



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

About the Programme

Data analytics is confluence of mathematics, statistics and computer science disciplines, and incorporates techniques like machine learning, cluster analysis, data mining and visualization. It is a multi-disciplinary area that uses scientific methods, algorithms and systems to extract hidden knowledge and insights from (structured and unstructured) data. Application areas of data analytics include important domains like, banking, finance, smart city, multimedia data analysis etc. Hence, it is important to bring awareness among researchers & academicians and train manpower on applications of data analytics to do innovative research work, projects, and create knowledge base.

Objectives of the Programme

- To disseminate the knowledge of application areas of data analytics among students, researchers and academicians.
- To provide conceptual understanding of how data analytics can be used for to innovate and improve business processes.
- To 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 analytics.

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 are 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 analytics and its application areas can participate in the event.

Speakers

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

Topics to be Covered

An indicative list of application areas of data analytics includes (a) Banking and Finance: solving business problems; business and market correlations; fraud and risk detection etc. (b) Smart City Planning and development: energy

management; traffic data analysis etc. (c) Health care supply chain: predicting disease outbreak, optimize treatment and patient flow etc. (d) Time Series Analytics: reveals associated trends and patterns in data; weather forecasting; stock market prediction etc. (e) Social media and multimedia data analysis: behavior analysis, recommender system etc. (f) Astro data analysis: discovery; precision; prediction etc. A non-exhaustive list of topic to be covered includes:

- Data Analytics Fundamentals and its Issues
- Data Analysis in Health Care
- Predictive Data Analytics for Time-Series Data (like, Stock Market)
- Astro Data Analytics
- Multimedia Data Analytics
- Big Data Algorithms & Analysis
- Visualization of Data
- Deep Learning Techniques used in Data Analytics
- Data Analytics for IoT Data
- Data Analytics for Agricultural Data
- Smart City Data Analytics

Co-Ordinators

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