



**CSIR-National Institute of Science Communication And Information Resources  
(CSIR-NISCAIR)**

***Training on 'Data Science'***

**27-31 May 2019**

**About NISCAIR**

National Institute of Science Communication And Information Resources (NISCAIR) is one of the premier Institutes of CSIR serving the society using modern IT infrastructure. CSIR-NISCAIR, since its inception, has been laying emphasis on reaping the benefits of information technology to effectively serve the national and international community to be an institution of international standard and repute in the areas of knowledge networking, databases on natural resources, science communication, science popularization and S&T information management systems and services. CSIR-NISCAIR hosts a state of the art DIRF Data Centre (ISO/IEC certified).

**About Course**

**Data Science**, deals with both structured and unstructured data, includes everything that is associated with: cleansing, preparation and final analysis of data, it combines programming, logical reasoning, mathematics and statistics. Data science is an umbrella of several techniques that are used for extracting the information and the insights of data.

Over the last few years Data Science has really changed our concept of technology. We see our lives a lot easier as compared to 10 years ago, and this is all because of data science. Data Science has really pulled the ends between fiction and technology. Right from LinkedIn to Tinder, data science is being used everywhere.

Data Science is successfully adding value to all the business models by using statistics and deep learning to make better decisions and improve hiring.

**The tentative schedule is as follows:**

- Introduction to Data Science
- Python: Basics, Numpy, Pandas, Data Visualization, CRISP-DM Framework, Exploratory Data Analysis
- Machine Learning Basics - Supervised, Unsupervised; Machine Learning using Neural Networks
- Basics of Data Pre-processing, Data Clustering & Classification
- Linear and Logistic Regression Analysis and their Applications
- Textual Data Analysis, Sentiment Analysis- Emotion and Polarity Analysis
- Hadoop, Apache Hive, Apache-Pig, Apache Spark
- TensorFlow Framework
- Deep Learning

Interested Academicians, R&D personnel, Data Analyst, Information Scientists, Science Communicators, students may send their application to [training@niscair.res.in](mailto:training@niscair.res.in)

Resource persons: Google Community Trainers and CSIR-NISCAIR Faculty

The course fee for Indian participants, Rs. 5,000 (without accommodation) and Rs. 7,500 (with accommodation) is to be paid through NEFT/ECS/IMPS only to NISCAIR bank account. The details of CSIR-NISCAIR bank account is as under:

A/c.no. 90292160000079, A/c name: NISCAIR, New Delhi, Bank: SYNDICATE BANK, Branch: Pusa Campus, IARI, New Delhi- 110012, IFSC:SYNB0009029

Participation Certificate will be awarded after successful completion of training.

**For more details Contact:**

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**Venue**

CSIR-NISCAIR, Vigyan Suchna Bhawan, 14 Satsang Vihar Marg,  
New Delhi-110067

**Last Date of application : 20 May 2019**