INDIAN STATISTICAL INSTITUTE

Weekend Online Course on

Data Science and Analytics using Python

Dates: 29 - 30 August & 05 – 06 September 2026

Mode: Online **| Duration:** 4 days **| Timing:** 9:30 am to 5:30 pm

Organized by:

SQC & OR Unit, Indian Statistical Institute, Bangalore - 560 059, INDIA

Phone : +91-80-2698 5402 Mobile: +91 94487 04182 Fax : +91-80-2848 4910

Web : http://www.isibang.ac.in

e - mail : boby@isibang.ac.in

Program Objective

The course aims to equip learners with practical skills to extract actionable insights from data and apply basic analytical and machine learning techniques to support data-driven decision-making in business and industry.

Program Benefits

By the end of the program, participants will be able to:

- Understand data science and analytics.
- Use Python for data analysis.
- Clean and preprocess datasets.
- Perform descriptive analytics.
- Build basic statistical and machine learning models.
- Evaluate model performance.
- Unsupervised Learning: Cluster Analysis

Certification Criteria

An online examination will be conducted at the end of the course. Successful candidates will receive the certificates.

Course Content

Module	Topic
Module 1	• Introduction to Data Science and Analytics • Introduction to Python • Data Cleaning and Pre processing (sorting, filtering, merging, appending, feature generation, handling missing values, outliers, duplicate records , etc.) • Data Visualization (scatter plots, correlation, box plots, data aggregation, pair plots, cross tabulation and mosaic plots)
Module 2	• Descriptive Analytics (procurement analytics, supplier risk scoring & segmentation, inventory optimization, etc) • Machine Learning (supervised and unsupervised learning) • Predictive Analytics: Classification and Regression (multiple linear regression, binary logistic regression, classification and regression tree)
Module 3	• Unsupervised Learning: Cluster Analysis

Course material and datasets will be shared with participants. Training sessions will be conducted online.

Course Fee

Category	Base Fee	GST (18 %.)	Total Fee	Eligibility Criteria
Standard Fee	Rs. 15,000	Rs. 2,700	Rs. 17,700	Applicable after 12 August 2026
Early Bird Advantage	Rs. 12,000	Rs. 2,160	Rs. 14,160	Apply on or before 12 August 2026
Corporate Discount	Rs. 12,000	Rs. 2,160	Rs. 14,160	Minimum 2 participants from the same organization

Note: Please mention the participant's name and course code (DSA -01) in the "Additional Information" field during online transfer of fees.

Important Dates

Last date for submission of nominations: 26 August 2026

Course dates: 29 – 30 August & 05 – 06 September 2026

Duration: 3 days

Timing: 9:30 am – 5:30 pm

Online Fund Transfer Details

Bank Account Details	
Name	Indian Statistical Institute
Bank	Uco Bank, Kengeri Branch
Account Number	02970200000702
IFSC Code	UCBA0000297
Type of Account	Current Account

Contact: Program Director : DSA-01,
SQC & OR Unit, Indian Statistical Institute,
8th Mile, Mysore Road, Bangalore –560059, INDIA
Phone: + 91-80-2698 5402
Mobile: +91 94487 04182
email: boby@isibang.ac.in

About Indian Statistical Institute

The Indian Statistical Institute (ISI) is a unique institution of national importance, devoted to research, teaching, and applications in statistics, natural sciences, and social sciences. Established by an Act of Parliament, ISI functions as:

- A university with the authority to award degrees up to Ph.D.
- A leader in multidisciplinary research and consulting for industry.
- A center for excellence bringing together scientists, economists, and scholars from across the world.

SQC & OR Division

1. A pioneering division at the forefront of integrating statistical theory with industrial practice in India. Its core activities encompass:
2. Driving continuous quality enhancement across diverse industrial sectors through data-driven methodologies.
3. Delivering specialized training programs, workshops, and customized in-house sessions to build capacity and foster operational excellence.
4. Cultivating globally competitive professionals equipped with analytical rigor and industry-relevant skills.
5. Empowering industries to implement Quality Engineering and Six Sigma frameworks, while unlocking actionable insights through advanced analytics.
6. Advancing applied research to develop innovative methodologies tailored to industrial challenges and opportunities.