

INDIAN STATISTICAL INSTITUTE

announces
Online Course on
Ensemble Learning using Python



23 – 24 August 2025 SQC & OR Unit, Bangalore



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

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Program Objective

This program is designed as a foundation course for those interested in machine learning using ensemble learning techniques

Program Benefits

The participants will acquire the knowledge required for

- Extracting insights through Descriptive Analytics using Python
- Developing prediction models using Classification and Regression Tree Method
- Developing prediction models using ensemble learning techniques like Bagging, Boosting and Random Forest Methods
- Developing prediction models using general ensemble learning techniques like Voting Classifier and Stacking
- Hands on experience on the usage of open source package Python

Eligibility

- Any science, commerce, economics or engineering graduate can participate in the program
- Online examination will be conducted at the end of the course and successful candidates will be issued the certificate

Course Content

Module	Topic
Module 1	Descriptive Statistics
	Introduction to Python and Jupiter Notebook
	Descriptive Analytics
Module 2	Supervised Learning Techniques: Classification and Regression Tree Method
Module 3	Ensemble Learning Techniques : Random Forest, Bagging & Boosting
Module 4	Advanced Ensemble Learning Techniques: Voting Classifier and Stacking

The course material and data sets will be shared with the participants. Training will be conducted through online classes.

Course Fee

Partici	pants	Fee	GST (18%)	Total Amount
Profes	sionals	Rs. 8,000/-	Rs. 1,440/-	Rs. 9,440/-
Studer	nts	Rs. 5,000/-	Rs. 900/-	Rs. 5900/-

Course Fee

Kindly mention the participant and course (EL-01) names in remark/message field while doing online transfer of course fee

Seats are limited. Enrolment on the First-Come-First-Serve basis. Before making online course fee payment, kindly check the availability of seats.

Important Dates

Last date for submission of application forms: 20 August 2025

Course Dates: 23 – 24 August 2025

Duration: 2 days

Timing: 9:30 am to 5:30 pm

Contact: Program Director: EL-01,

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Indian Statistical Institute

- 1. Indian Statistical Institute is a unique institution devoted to the research, teaching and application of statistics, natural sciences and social sciences
- 2. It is declared by an Act of Parliament as an Institute of National Importance.
- 3. Over the years, the Institute has grown as a multi-disciplinary organization.
- 4. It functions as a University empowered to award degrees up to Ph.D.; as a Corporation in undertaking large-scale projects; as a Firm of Consultants to industries to improve Quality, Reliability & Efficiency and as a Meeting place for Scientists, Economists & Literary figures from all parts of the world.

Role & Function of SQC & OR Division

- 1. The pioneer and leader in blending statistical theory with practice and institutionalizing the continuous improvement process into a sustainable system.
- To strengthen the national economy through a continual search for excellence in Quality.
- 3. To disseminate the basic concepts and techniques for Quality Improvement by organizing Training programs, Workshops and In-house programs.
- 4. To develop highly skilled professionals capable of self-actualization.
- 5. To help industries in their efforts to cope with the growing challenge of global competition through the implementation of quality systems based on ISO-9000 series, ISO-14000, QS-9000 standards, Six Sigma & World Class Manufacturing.
- 6. To continually develop and improve methodologies through applied research efforts to attain International Standards in services provided.