

Five Day Training Program
On
Data Visualization and Predicting Modelling
Using R

During March 13-15 and 21-22, 2020



Conducted by:
SQC & OR Unit, Mumbai
Indian Statistical Institute,
Room No 320, 3rd Floor Old C G O Building
101 Maharshi Karve Road, Mumbai 400 020:
Tel 22014588 / 22004574
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Introduction:

Predictive modelling techniques are about developing a mathematical/ logical relationship between a response variable and various explanatory variables. Predictive analytical models are key to understanding data, generating predictions with a certain degree of confidence level, and making business decisions. Predictive modelling is arguably the most exciting aspect of the emerging and already highly sought-after field of data analytics. In modeling, it's essential to understand how to choose the right data sets, algorithms, techniques and formats to solve a particular business problem. This program is planned to impart basic skill of predictive using appropriate statistical and machine learning techniques.

About the Institute:

The Indian Statistical Institute is a quasi central organization under the Ministry of Statistics & Programme Implementation. It is declared by an Act of Parliament as an Institute of National Importance. Over the years the Institute has grown as a multi-disciplinary organization. It functions as a University empowered to award degrees upto Ph.D.; as a Corporation in undertaking large scale projects; as a Firm of Consultants to industries to improve Quality, Reliability and Efficiency and as a Meeting place

Programme Objectives:

This program is designed for familiarizing and providing hands-on experience to participants on various statistical and machine learning techniques for predictive modeling using R.

Program Benefits:

On completion of the course, the participants will be able to

- Develop predictive models using various statistical and machine learning techniques
- Interpret and evaluate various models and its generalization
- Hands on experience on the usage of open source packages like R and R Studio

Course Contents:

- Introduction to data visualization/ predictive modelling
- Descriptive and inferential statistics
- Graphical representation of data/ statistics
- Probability and probability distribution
- Introduction to test of hypothesis
- t-test and F-test
- Predicting modelling techniques e.g.,
 - ANOVA GLM
 - Linear Regression
 - Dummy Variable/ Count Regression
 - Logistic Regression
 - Classification and Regression Tree(CART)
 - Random Forest
 - Naïve Bayes Classifier
 - K-Nearest Neighbor
 - Support Vector Machine (SVM)

Target Participants:

- Professionals working in analytics field or interested in usage of various methods of forecasting
- Elementary knowledge on statistical techniques are preferable

Faculty:

Experienced faculties of SQC & OR Division having in-depth experience in data analysis and its application in various industries.

Course Fee:

- INR 25,000 per participant + 18% GST (INR 29500/-)
- US\$ 400 for overseas participants

The participation fee includes course material, kit, lunch & snacks.

Registration:

- Please send your nomination along with appropriate course fee in the attached registration format. Before making online payment, please check availability of seats. Fees once paid will not be refunded under any circumstances
- All participants are required to bring laptop, for carrying out analysis using R-studio.
- Registrations are done on 'first come first served' basis.

Important Dates:

Last date of submission of nominations: **March 6, 2020**

Program dates: **March 13-15 & 21-22, 2020**

Timing: **9:30 hrs - 17:30 hrs**

Venue:

**Conference Room, SQC & OR Unit,
Indian Statistical Institute,
Room No 320, 3rd Floor Old C G O Building
101 Maharshi Karve Road, Mumbai 400 020**

**Training Programme on
Data Visualization and Predicting Modelling Using R
March 13-15 & 21-22, 2020**

Organization:

Mailing Address:

Contact Person:

E-mail:

Phone: Fax :

Details of the participants attending the program:

1. Name :

Position :

2. Name :

Position :

Details of DD/Cheque attached (Rs 29500/-) per participant inclusive of GST @18%) in favour of "Indian Statistical Institute" payable at Mumbai

Amount : _____

DD/Cheque No. : _____ Date : _____

Bank : _____ Branch : _____

Signature : _____ Name : _____ Date : _____

Bank Details for online payments [please inform details of online payment to office]

Bank Name: STATE BANK OF INDIA

Bank Account No: 10996682279

Account Name; INDIAN STATISTICAL INSTITUTE, Type : Current

Branch: MUMBAI MAIN BRANCH

Bank Address: MUMBAI SAMACHAR MARG, HORNIMAN CIRCLE, FORT
MUMBAI 400023

IFSC code: SBIN0000300

Signature :

Name : _____ Date _____

*Xerox copy of this form may be used in case of more participants. Please e-mail the form to:
sqcbombay@gmail.com or send to :*

*Program Director, SQC & OR Unit, Indian Statistical Institute, Room No,320, 3rd
Floor, Old CGO Bldg,101, Maharshi Karve Road, Mumbai 400 020*

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