



National Institute of Bank Management
Pune, India

R for Data Science and Machine Learning in Banking

June 10 – 13, 2019

Coordinator
Prof Ateeque Shaikh



R for Data Science and Machine Learning in Banking

The amount of data that is being generated on a daily basis has increased multiple times, the technological advancement in terms of storing this data has improved considerably. Therefore, in turn the ability to analyze the data and generate insights for data driven decision making becomes primary importance. Data science and machine learning techniques are revolutionizing the banking sector in India. These techniques can be applied in almost all the functional domains of banking and finance like Risk Management, Credit Management, customer analytics, Bank operations, Human Resources etc. for predictive and prescriptive modeling in banking and finance.

However the availability of manpower with data science and machine learning skills is still limited. The tools that are currently in demand for applying machine learning techniques on the data are SAS, IBM Watson, R and Python. SAS and IBM Watson are licensed tools whereas R and Python are open source tools. The objective of the course is to introduce the concepts of data science and machine learning to the participants in the context of Banking and financial services. The training programme will cover the basics of R programming, basics of statistics and probability distribution to perform exploratory data analysis and finally build various predictive machine learning models. At the end of the course, the participants will have strong foundation of data science skills and would have built an end to end predictive model with banking data.

Target Audience

The programme will be most useful for Bankers/ managers from Analytics, Statistics, MIS, and Marketing Departments of Banks.

Objective

The objective of the course is to enable participants acquire data science skills with special focus on application of machine learning algorithms to banking and financial services industry. The training programme will be completely case based and hands on exercise on R programming

Content

- ❑ What is Data Science?
- ❑ Data Science work flow for building data products
- ❑ Getting started with R: Installation, R environment, R Commander, R studio
- ❑ Introduction to R Basics: R libraries
- ❑ Data types, R Data frames, R Lists
- ❑ Basics of machine learning: Supervised and Unsupervised machine learning algorithms
- ❑ Data Manipulation with R
- ❑ Data Visualization with R
- ❑ Exploratory Data analysis in R
- ❑ Machine Learning with R: Linear regression
- ❑ Machine Learning with R: Logistic regression
- ❑ Machine Learning with R: Decision trees
- ❑ Machine Learning with R: Support vector machines
- ❑ Machine learning with R: K-means Clustering

Pedagogy

The training programme will be completely hands on with case exercises from Banking and finance domain using R programming.

Dates and Duration

June 10 – 13, 2019 (4 days)

The programme will commence at 9:00 am on Monday, June 10 and will conclude by 5:00 pm on Thursday, June 13, 2019.

Venue

NIBM Campus, Kondhwe Khurd Pune, India.

Accommodation

The programme is fully residential. Participants will be provided well-furnished single room AC accommodation in the Institute's hostel complex on the campus. However, they will not be permitted to bring their family members to stay on the campus. In case any Officer/Executive with physical/ medical disability is being nominated, kindly inform us in advance with particulars of disability to facilitate necessary arrangements.

The Institute has facilities for outdoor and indoor games and a large walking/jogging trail for physical fitness besides a yoga centre. Participants are therefore encouraged to bring appropriate clothes/gear.

Programme Coordinator

Prof Ateeque Shaikh

Assistant Professor

(Strategic Planning, Marketing and Control)

Last Date for Receiving Nominations:

May 31, 2019

Last Date for

Availing Early Bird Incentive of 5%:

May 25, 2019

(See fee structure on home page of the website)

Nominations and Enquiries

Please address your enquiries and nominations to:

Prof Ateeque Shaikh

Programme Coordinator

National Institute of Bank Management

NIBM Post Office, Kondhwa Khurd

Pune 411 048, NDIA

Tel. : 0091-20-26716000 (EPABX)

0091-20-26716115 (Direct)

Fax : 0091-20-26834478,

E-mail : a.shaikh@nibmindia.org

For further details, visit us at Website:

www.nibmindia.org

Programme Fee (per participant)

US \$ 1600 for foreign participant

(See fee structure on home page of the website for incentive)

	Fee	GST	Fee+GST	TDS
Member Banks :	36000	6480	42480	3600
Non-Member Banks :	42000	7560	49560	4200

The fee includes the cost of tuition, board and lodging facilities, teaching material, etc. (Goods and Services Tax (GST) @ 18% and TDS @ 10%. Kindly send the TDS Certificate on priority to NIBM).

Mode of Payment for Indian Participants

- The fee may preferably be transferred by RTGS/NEFT/ECS to our A/c No. 20002400021 with Bank of Maharashtra, NIBM Branch, Pune (IFSC Code MAHB0001124). NIBM PAN No. AAATN0040P and GSTIN No. 27AAATN0040P1ZJ.
- National Institute of Bank Management
NIBM Post Office, Kondhwa Khurd, Pune 411 048, INDIA.

Mode of Payment for Foreign Participants

Mode of Remittance: SWIFT*

1. Name & Address of our Bankers : **Oriental Bank of Commerce
C-2, Shop No. 4-5, Bramha Estate
Kondhwa Khurd, Pune 411 048
Maharashtra, India**
2. Name of the Account : **National Institute of Bank Management**
3. NIBM's Bank Account No. with Oriental Bank of Commerce : **Current A/C 11281131004402**
4. Bank's Swift Code : **ORBCINBBFCP**
5. Oriental Bank of Commerce A/c No. with Correspondent Bank : **36152559**
6. Preferred currency : **USD**
7. Correspondent Bank : **CITIBANK N.A.**
8. Swift code for Citi Bank : **CITIUS33**

*** The Foreign Bank Charges/ SWIFT charges/Commission is to be borne by the remitter. The fees mentioned in the invoice/brochure is to be paid to NIBM, net of all bank charges.**

***Payments will be accepted only through electronic mode.
Cheques/DDs/Pay Orders will not be accepted.**

- **For all electronic remittances, kindly send a confirmatory e-mail at: accounts@nibmindia.org giving details of the remitter and participant, name and dates of programme, etc.**

Please see programme fee structure on home page of the website for early bird incentive, incentives for SAARC and other developing countries, mode of remittance, Pune City route map and local conveyance.