



# Institute for Development and Research in Banking Technology

(Established by Reserve Bank of India)

Castle Hills, Road No. 1, Masab Tank, Hyderabad-57, India.

---

e-Programme on

## AI/ML AND DATA SCIENCE IN BANKING

**JUNE 15 - 18, 2021**

---

### Introduction

AI/ML has caught the imagination of researchers and practitioners in all disciplines, banking being no exception. This field has revolutionized the way business is done in retail marketing and changed the face of all service industries. Banking being a very important segment in that family of service industries has witnessed irreversible changes in the way customer relationships are managed, operations are conducted and risks are mitigated. This has successfully augmented the phenomenal impact analytics already had on the banking. Data science subsuming big data analytics and social media analytics has solved important use cases in banking viz., customer acquisition, customer churn prediction, fraud detection, credit scoring, loan default prediction, sentiment analysis etc. While making significant inroads into these use case AI/ML has brought in mind boggling transformational changes in the way operations conducted directly with customer, spreading business outlets (branches, ATMs) to newer regions, ATM Cash replenishment, etc. Robotic process automation, chatbots are prime examples of the application of AI apart from the myriad of applications of ML as mentioned above. Network and information security also witnessed high impact implementation of AI/ML. Successful implementation of AI/ML and data science makes the digital journey of a bank complete, profitable, sustainable, safe and rewarding.

### Objectives

- To make the participants aware of the new developments in this field and influence them to join the bandwagon for overall growth of the banking industry
- To convince the with use cases, case of studies, best practices in Indian banks and PoCs conducted at the Centre of Excellence in Analytics, IDRBT

### Contents

- Introduction to AI/ML
- Introduction to Data Science (subsuming big data and social media analytics)
- Case studies of AI/ML in banking on the important problems of CRM, Fraud Risk prediction, Security and Operations.
- Best practices, critical success factors, framework for AI/ML implementation in banks

### Mode of Teaching

Four exciting live Webinars supplemented by short videos, course material, best practices, frameworks etc. followed by thought-provoking daily quizzes for self-assessment.

### Who Can Participate?

Officers and executives up to and including GM level from digital banking, transaction banking, planning, marketing, IT, Security, SOC.

### End Uses:

- Participants shall be on boarded to this exciting field, several concepts will be demystified.
- Participants can help write the RFP in the respective areas using AI/ML & Data Science
- They will be ready for a full-fledged, rigorous hands-on training on these subjects.
- They can ask the vendors pertinent and pointed questions

### Programme Coordinator:

**Dr. V. Ravi**, Professor, IDRBT;

E-mail: [vravi@idrbt.ac.in](mailto:vravi@idrbt.ac.in)

### Fees:

#### **For Indian Participants**

- RRBs & Coop Banks: Rs. 8,850/- (Rs. 7,500/- + 18% GST)
- All Other Banks & FI's: Rs. 11,800/- (Rs. 10,000/- + 18% GST)

#### **For International participants**

- US \$ 175 (per participant, All inclusive)

### Bank Account Details for Remittance of Fees

The fees for this e-programme can be remitted to the following accounts:

#### **For Indian Participants**

Account Name : IDRBT  
Bank & Branch : Axis Bank Limited, Humayun Nagar, Mehdiapatnam, Hyderabad  
Account No. : 426010100018823  
MICR Code : 500211012  
IFSC Code : UTIB0000426

#### **For International participants**

Receiver's Correspondent Bank : JP Morgan Chase, New York, USA  
Swift Code : CHASUS33XXX  
Fed Wire Routing Number : ABA 021000021  
Beneficiary Bank & Branch : Axis Bank Ltd., Mumbai, India  
Account Number : 0011407376  
Beneficiary Bank Swift Code : AXISINBB

#### **Ultimate Beneficiary**

Account Name : IDRBT  
Customer ID : 030021632  
Account No. : 426010100018823  
Bank & Branch : Axis Bank Ltd., Jubilee Hills, Hyderabad, India. (AXISINBB030)

### Nominations

Banks may nominate any number of participants to these e-Programmes, which may be accepted on a first-cum-first-served basis. While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No/Phone No, email address, fees billing address, GST No. of the Bank).

Apart from nominations by banks, staff members of banks can self-nominate themselves for these e-Programmes by providing their employee credentials and paying the programme fee latest by **JUNE 14, 2021**.

## How to Register

The nominations for these e-Programmes, and queries if any, may please be sent to [eprogram@idrbt.ac.in](mailto:eprogram@idrbt.ac.in). Please visit <https://www.idrbt.ac.in/eprogrammes> for more details about these programmes.

\*\*\*\*\*

### e-Programmes in JUNE 2021

| S. No. | Name of the e-Programme                                       | Date              | e-Programme Coordinator | Last Date for Nomination |
|--------|---|-------------------|-------------------------|--------------------------|
| 1      | Technologies for Financial Inclusion                          | 01 - 04           | Dr. M. V. N. K. Prasad  | <b>May 31, 2021</b>      |
| 2      | RBI Guidelines on Cyber Security                              | 01 – 04           | Dr. Dipanjan Roy        | <b>May 31, 2021</b>      |
| 3      | Workshop on RA Operations                                     | 08 – 11           | Dr. N. P. Dhavale       | <b>Jun 07, 2021</b>      |
| 4      | API Development   | 08 – 11           | Dr. V. Radha            | <b>Jun 07, 2021</b>      |
| 5      | AI/ML and Data Science in Banking                             | 15 – 18           | Dr. V. Ravi             | <b>Jun 14, 2021</b>      |
| 6      | Privacy and Security Risks in Machine Learning                | 15 – 18           | Dr. Rajarshi Pal        | <b>Jun 14, 2021</b>      |
| 7      | 5G and Internet of Things for Banks                           | 21 – 24           | Dr. V.N. Sastry         | <b>Jun 20, 2021</b>      |
| 8      | Virtualization and Cloud Computing                            | 22 – 25           | Dr. P. Syam Kumar       | <b>Jun 21, 2021</b>      |
| 9      | Insider Threats – Monitoring, Analysis and Detection          | 22 – 25           | Dr. B. M. Mehtre        | <b>Jun 21, 2021</b>      |
| 10     | Re-imagining Customer Engagement with Conversational Chatbots | June 29 – July 02 | Dr. Rajarshi Pal        | <b>Jun 28, 2021</b>      |
| 11     | Re-envisioning Digital Banking Systems                        | June 29 – July 02 | Dr. Susmita Mandal      | <b>Jun 28, 2021</b>      |