e-Programme on

EMERGING AI/ML TECHNOLOGIES
March 14 – 17, 2022

Introduction

In 2020, the epidemic and constant lockdowns boosted the demand for digital services of the future powered with AI. And now we see a growing demand for cutting-edge AI/ML technologies in the financial industry. Financial Services firms are increasing their adoption AI and machine learning to capitalize on the data from new digitally driven channels. It is a must for Financial and Banking institutions that they know what they can deploy now and understand future challenges. This will allow them to work toward redesigning their businesses. This e-program is one step in this direction.

Objectives

- To make the participants aware of the basic ML pipeline and the set of practices that aims to deploy and maintain machine learning models reliable and efficient.
- To present emerging use cases of AI/ML in BFSI along with the technological factors and concepts behind them.
- To discuss the major challenges in successfully deploying AI/ML solutions, such as the associated security and privacy issues etc.

Contents

- Introduction to Machine Learning pipeline and MLOps
- Emerging use cases of AI/ML in BFSI - I: Advanced NLP in Finance - Intelligent process automation and multilingual chatbots
- Emerging use cases of AI/ML in BFSI - II: AI/ML for Cyber Security, V-KYC and Edge Intelligence
- Main Barriers to the wider adoption

Mode of Teaching

Online teaching plus learning inputs through reading material, videos, webinars, assignments, quizzes, online interactions and clarifications. Each e-Programme will have four live webinars and course material will be made available in advance for study.

Who Can Participate?

Officials from IT Divisions of Banks and Financial Institutions, who are involved in projects related to Digital Banking and innovations.

End Use:

Participants will have a better understanding of key factors of machine learning pipeline, and the associated challenges. They will also be explored to various emerging use cases of AI/ML in the field of banking and finance.

Programme Coordinator:

Dr. Mridula Verma, Assistant Professor, IDRBT; e-mail: vmridula@idrbt.ac.in

Fees:

For Indian Participants

- RRBs & Coop Banks: Rs. 11,800/- (Rs. 10,000/- + 18% GST)
- All Other Banks & Financial Institutions: Rs. 14,750/- (Rs. 12,500/- + 18% GST)

For International participants

- US $ 220 (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, Mehdipatnam, 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 **March 11, 2022**.

How to Register

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

*****

e-Programmes in March 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Workshop on Registration Authority Operations	01 – 04	Dr. N. P. Dhavale	**Feb 28, 2022**
2	AI/ML and Data Science for Banks	01 – 04	Dr. V. Ravi	**Feb 28, 2022**
3	Proactive Cyber Defence Strategies	07 – 10	Dr. Dipanjan Roy	**Mar 04, 2022**
4	Introduction to Authentication Techniques	08 – 11	Dr. M. V. N. K. Prasad & Dr. N. P. Dhavale	**Mar 07, 2022**
5	Recent Cyber Crimes and Defences	08 – 11	Dr. Rajarshi Pal	**Mar 07, 2022**
6	Data Centre Management	14 – 17	Dr. P. Syam Kumar	**Mar 11, 2022**
7	Emerging AI/ML Technologies	14 – 17	Dr. Mridula Verma	**Mar 11, 2022**
8	Big Data Analytics through Elastic Map Reducer for Banks	21 – 24	Dr. V. Ravi	**Mar 11, 2022**
9	Mobile Banking, Social Media Banking and Mobile Security Testing	21 – 25	Dr. V. N. Sastry	**Mar 18, 2022**
10	Targeted Attacks - Detecting in Early Stages	22 – 25	Dr. B. M. Mehtre	**Mar 21, 2022**
11	Secure Coding Practices	22 – 25	Dr. V. Radha	**Mar 21, 2022**
12	Re-envisioning Digital Banking Systems	28 – 31	Dr. Susmita Mandal	**Mar 25, 2022**

e-Programmes in April 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Distributed Ledger Technology and Banking Applications	04 – 07	Dr. N. V. Narendra Kumar	**Apr 01, 2022**
2	Technologies for Financial Inclusion	04 – 07	Dr. M.V.N.K. Prasad	**Apr 01, 2022**
3	Workshop on Registration Authority Operations	05 – 08	Dr. N. P. Dhavale	**Apr 04, 2022**
4	AI/ML for Cyber Security	05 – 08	Dr. Rajarshi Pal	**Apr 04, 2022**
5	Adversarial ML for Banks	18 – 21	Dr. V. Ravi	**Apr 13, 2022**
6	Smart Banking using AI and ML	18 – 21	Dr. Mridula Verma	**Apr 13, 2022**
7	Cyber Forensics for Cyber Defence - A Proactive Approach	19 – 22	Dr. B. M. Mehtre	**Apr 18, 2022**

8	API Development	19 – 22	Dr. V. Radha	**Apr 18, 2022**
9	Future of Innovative Smart Banking	25 – 28	Dr. Susmita Mandal	**Apr 22, 2022**
10	Security in Cloud Computing	26 – 29	Dr. P. Syam Kumar	**Apr 25, 2022**
11	Introduction to Hardware Security	26 – 29	Dr. Dipanjan Roy	**Apr 25, 2022**

e-Programmes in May 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Re-imagining customer engagement with conversational Chatbots	09 – 12	Dr. Mridula Verma	**May 06, 2022**
2	Introduction to Governance, Risks and Compliance	10 – 13	Dr. Abhishek Kumar Thakur	**May 09, 2022**
3	Continuous Security Validation	10 – 13	Dr. V. Radha	**May 09, 2022**
4	Secure Financial Infrastructure	10 – 13	Dr. Susmita Mandal	**May 09, 2022**
5	Cyber Security for Remote Working Scenario	17 – 20	Dr. Rajarshi Pal	**May 16, 2022**
6	Proactive Cyber Defence Strategies	17 – 20	Dr. Dipanjan Roy	**May 16, 2022**
7	Dark Web Monitoring for Threat Intelligence	17 – 20	Dr. B. M. Mehtre	**May 16, 2022**
8	Introduction to Authentication Techniques	23 – 26	Dr. M.V.N.K. Prasad Dr. N.P.Dhavale	**May 20, 2022**
9	Explainable AI for Banks	24 – 27	Dr. V. Ravi	**May 23, 2022**
10	Big Data and Cloud	24 – 27	Dr. P. Syam Kumar	**May 23, 2022**

e-Programmes in June 2022

S. No.	Name of the e-Programme	Date	e-Programme Coordinator	Last Date for Nomination
1	Privacy Preserving Machine Learning for Banks	06 – 09	Dr. V. Ravi	**June 03, 2022**
2	Distributed Ledger Technology and Banking Applications	06 – 09	Dr. N. V. Narendra Kumar	**June 03, 2022**
3	5G Use Cases and IoT Applications for Banks	06 – 10	Dr. V. N. Sastry	**June 03, 2022**
4	Threats to Digital Payment Ecosystem	07 – 10	Dr. Susmita Mandal	**June 06, 2022**
5	Technologies for Financial Inclusion	07 – 10	Dr. M.V.N.K. Prasad	**June 06, 2022**
6	Emerging AI/ML Technologies	13 – 16	Dr. Mridula Verma	**June 10, 2022**
7	Workshop on Registration Authority Operations	14 – 17	Dr. N. P. Dhavale	**June 13, 2022**
8	Privacy and Security Risks in Machine Learning	14 – 17	Dr. Rajarshi Pal	**June 13, 2022**
9	RBI Guidelines on Cyber Security	20 – 23	Dr. Dipanjan Roy	**June 17, 2022**

10	Introduction to Containers	21 – 24	Dr. P. Syam Kumar	**June 20, 2022**
11	Targeted Attacks - Detecting in Early Stages	21 – 24	Dr. B. M. Mehtre	**June 20, 2022**
12	API Development	Jun 28 – Jul 01	Dr. V. Radha	**June 27, 2022**