

Programme on

ADVANCE AI/ML FOR CYBER SECURITY

Coordinator: **Dr. Mridula Verma**

MARCH 17 - 19, 2025
(Offline Mode)



INSTITUTE FOR DEVELOPMENT AND RESEARCH IN
BANKING TECHNOLOGY, HYDERABAD
(ESTABLISHED BY RESERVE BANK OF INDIA)

Introduction

AI is changing the game for cybersecurity, analyzing massive quantities of risk data to speed response times and augment under-resourced security operations. As cyberattacks grow in volume and complexity, artificial intelligence (AI) is helping under-resourced security operations analysts stay ahead of threats. The type of attacks we are prone to currently being - Advanced Malware, Insider threats, Transaction frauds, Encrypted attacks, Data exfiltration, The exploitation of run-time applications, Acquisition of accounts, Network Lateral Movement, and many more. Curating threat intelligence from millions of research papers, blogs and news stories, AI technologies like machine learning and natural language processing provide rapid insights to cut through the noise of daily alerts, drastically reducing response times. Thus, 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 and advance the security framework. This e-program is one step in this direction.

Objective

- ★ 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 the cyber security framework in BFSI, such as Breach risk prediction, User authentication, Spam filtering, Bot identification, Behavioral analysis, Network segmentation & security, Identity & access management and many more, along with the technological factors and concepts behind them.

Contents

- ★ Introduction to Machine Learning concepts, algorithms, and pipeline.
- ★ ML for system security - Network Security, Cloud Security, IoT Security, Autonomous Security
- ★ ML for Data Security - Security Analytics, Threat Prediction, ML for Cyber, Social Network Security, Insider Attack Detection
- ★ ML for Application Security - FinTech and Blockchain, Risk and Decision making, Trustworthiness, Data Privacy, Spam Detection, Battling Bots
- ★ Case studies and best practices

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 cyber security.

Fee Details

Domestic Participants from

- ★ RRBs & Coop. Banks: Rs. 44,840/- (Rs. 38,000/- + 18% GST)
- ★ All other Banks & Fis: Rs. 53,100/- (Rs. 45,000/- + 18% GST)

The fees for our programmes can be remitted through NEFT and the bank account details for fee payment are here under:

Account Name : IDRBT
Bank : Axis Bank Limited
Branch : Humayun Nagar (Mehdipatnam Ring Road) Branch, Hyderabad
Account Number : 426010100018823
IFSC Code : UTIB0000426
GSTIN : 36AAAAI0204K1Z4.

Nominations

Nominations should be sent to us latest by **MARCH 03, 2025** by email to program@idrbt.ac.in.

While nominating, please provide the details of the participants (Name, Designation, Bank, Mobile No / Phone No., email address) along with the nominating authority details (Name, Designation, Bank, Mobile No / Phone No., email address, Fees billing address, GST No. of the bank).

Accommodation

Participants will be provided Air Conditioned Single Occupancy room at IDRBT, Hyderabad, with all cafeteria facilities. The Participants can check-in on the evening of one day before the programme and can check-out after completion of the programme on the same day (or) in the morning of the next day of the programme.

Programmes Scheduled in March 2025

S. No.	Programme	Date	Coordinator
1	Digital Payment Security Controls	03 - 05	Dr. N. P. Dhavale
2	End to End Implementation of AI/ML in Banking	03 - 07	Dr. V. Ravi
3	Secure Mobile and Social Media Banking	05 - 07	Dr. V. N. Sastry
4	Fintech and Financial Inclusion	10 - 12	Dr. M. V. N. K. Prasad
5	Information Systems Audit and Control	10 - 14	Dr. Dipanjan Roy
6	Workshop on Registration Authority Operations	17 - 18	Dr. N. P. Dhavale
7	Advance AI/ML for Cyber Security	17 - 19	Dr. Mridula Verma
8	Emerging Trends in Cloud Computing	24 - 28	Dr. P. Syam Kumar

Please visit our website for more details at : <https://www.idrbt.ac.in/offline-programmes>.

Contact Us

Please contact our Programme Office for organizing Customized Programmes and/or any other queries related to programmes at program@idrbt.ac.in or call us on +914023294121/22/24/25.



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