eict IIT Roorkee

Electronics & ICT Academy
IIT Roorkee

An Initiative of
Ministry of Electronics & Information Technology (MeitY)
Government of India

A Faculty Development Program

on

Machine Learning Applications in Cyber crime Investigation: A Hands-on Approach

In association with

ITM UNIVERSITY GWALIOR

"CELEBRATING DREAMS"

Mar 25 - Mar 29, 2025

Register Before: Mar 22, 2025

Hybrid Mode

Venue: ITM University Gwalior

Why this course ?

In a rapidly evolving digital landscape, cybercrime poses significant challenges. This course equips participants with cutting-edge machine learning (ML) tools and practical skills to effectively combat and investigate cybercrime. Through hands-on learning, learners gain expertise in ML algorithms, tools like Python and TensorFlow, and the ability to identify digital threats. By bridging cybersecurity, law enforcement, and data analysis, this program prepares participants to meet industry demand and tackle emerging threats with an interdisciplinary and future-focused approach.

Prerequisites

No experience is required, but fundamental knowledge of any programming language would be helpful.

Objectives of the course

- Understand the integration of machine learning in cybercrime investigation.
- Gain hands-on experience with tools like Python and TensorFlow for cybercrime analysis.
- Develop skills to identify patterns, anomalies, and threats in digital evidence.
- Solve real-world cybercrime cases through practical projects.
- Prepare for industry demands in cybersecurity and data science.
- Stay ahead of emerging cyber threats using ML techniques.
- Build interdisciplinary knowledge combining cybersecurity and data analysis.

Focus Areas

- Machine learning in cybercrime investigation.
- Hands-on with Python, TensorFlow, and Scikit-learn.
- Digital evidence analysis and threat detection.
- Interdisciplinary approach: tech and law enforcement.
- Industry-relevant ML and cybersecurity skills.
- Problem-solving in cybercrime scenarios.
- Tackling emerging cyber threats with ML.

Course Features

- 40 Hours of Lectures, hands-on, and Pedagogy/Industry sessions.
- Lectures from Expert Speakers, Hands-on from industry/Academia experts.
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Course Outcomes

- Apply machine learning to investigate and combat cybercrime.
- Use tools like Python and TensorFlow for real-world cybercrime cases.
- Analyze digital evidence to identify patterns and threats.
- Solve complex cybercrime scenarios with practical ML solutions.
- Gain interdisciplinary expertise in cybersecurity and data science.
- Meet industry demands with advanced ML and cybersecurity skills.
- Stay prepared to address evolving cyber threats effectively.

Experts from Academia/Industry

Who Should Register?

Any Interested Faculty/PhD-Scholars UG/PG/ & Industry Persons can register

Registration Fee

Fees: ₹ 250/- Faculty/Research Scholar/ Students
₹ 500/- Industry/Others
Note: Refund will be done in case of course cancellation only, with in 20 working days

FDP Kits & Refreshment will be provided

How to make Payment

Please make the payment first using the below link upload the payment receipt when filling out the Google registration form

https://eict.iitr.ac.in/instruction-for-payment/

Conference Code: EICTIITR-FDP-25-09

Registration Link

https://forms.gle/EyftKmYEuESDAumi9

Scan QR for registration

Register before:
Mar 22, 2025

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Who may benifits

- Academic Faculty and Students(UG/PG)
- Government Officials.
- Working Professionals in the Semiconductor Industry and Startups.
- Reasearch Scientists and Technical Staff.

This certificate can be considered in alignment with other Quality Improvement Programs (QIP) as well as NBA and NAAC for recognition/credit.

Principal Investigator

Prof. Sanjeev Manhas
ECE Department, IIT Roorkee

Course Coordinators

- Prof. Sanjeev Manhas, IIT Roorkee
- Mr. Ratnesh Kumar Dubey, ITM University Gwalior

Course Co-coordinators

- Mr. Aravendra Kumar Sharma, ITM University Gwalior
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