Jaypee University of Information Technology

IEEE JUIT STUDENT BRANCH — **acm** Chapter

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Coordinators
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National Level Two Weeks Workshop on "Growing Role of Machine Learning in Cyber-Security" in collaboration with IEEE and ACM (13th - 24th June, 2022)

Topics to be covered

Topics	Hands on Session
Introduction to Machine Learning & Its Lifecycle, Decision Tree Classifier	✓
Role of ML in Cyber Security Applications	✓
Role of Cognitive Warfare	✓
Role of Cyber Security in Social Networking	✓
Cyber-Security Forensic Analysis using Mininet Network Emulator	✓
Ransom-ware Attack and security protocol	✓
Support Vector Machine , Logistic Regression	✓
Secure Machine Learning ,Clustering & Classification	✓
Ensemble Modelling , Time Series based Analysis, Exploratory Analysis	✓

About JUIT

JUIT is spread over 25 acres of lush green picturesque slopes of Waknaghat, in district Solan of Himachal Pradesh, creating a tranquil environment that can heighten the spirit and energy level of all learners and inspire them to optimize their learning efforts. JUIT Waknaghat is midway between Shimla & Solan.

Objective of the Workshop

Machine Learning has become important as many organizations have been collecting massive amounts of domain-specific data, which can contain useful information about problems such as national intelligence, Cyber Security, and fraud detection. Cyber attacks are continuing to increase at an alarming rate, especially with the ever-increasing nature of cyber connectivity. Hackers target a wide variety of protocols and communication systems along with data ranging from servers and end-user machines to wireless and mobile networks. Security measurements are to be considered based on history. The logs can be used to analyze the threats. Modern Cyber Security solutions are mostly driven by Machine Learning to process big data quickly and accordingly spot suspicious activity very effectively and efficiently. The absence of active cyber defense and technically sound forensic methods may prevent administrators from making suitable decisions on time against threats like proving the identity of the guilty party, identifying the root vulnerability to prevent the future occurrence of a similar incident, and understanding the hackers' intention to attack.

Cyber Security along with Machine Learning is emerging as an important discipline of Computer Science and Information Technology towards developing novel scientific approaches for collecting, processing, and analyzing the information retrieved from the systems affected by security incidents to generate conclusive descriptions.

Workshop will be conducted in both Offline and Online Mode. All the lectures will be delivered remotely by keynote speakers, whereas hands-on session will be conducted by experts in the Lab. All the sessions will be available through Google meet for the Online Participants.

Registration Link: **https://docs.google.com/forms/d/1CKWFxDp0InadH8ezLdfxT-7NI87DZ49rYuAMm9JAnx8/edit**

For offline	Rs 8000/- (including Boarding & Lodging charges
For online	Rs 500/-
For In-House B.Tech & M. tech/ M.Sc./ Phd	Rs. 100/- & – Rs. 300/-
For Academician/Researchers/Industrialist	Rs. 500/-

Account Details:
Beneficiary Name: Jaypee University of information Technology
Current Ac no: 0427032100000010
IFSC Code: PUNB0637100
Branch Name: JUIT, Waknaghat

Register Here

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Eminent Expertise

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