Short Term Course (e-STC)
on

Machine Learning and its applications in Information Security, Computer Vision and Natural Language Processing (MaLICoN 2025)

20-24 January 2025

CALL FOR PARTICIPATION

The National Institute of Technology (NIT), Hamirpur is organizing a Short Term Course (Online Mode) on Machine Learning and its applications in Information Security, Computer Vision and Natural Language Processing during 20-24 January 2025. Distinguished academicians, practitioners, young faculty members, research scholars, and students are invited to participate in this e-STC. The short term course will provide an excellent opportunity for participants to become aware of the recent trends in the areas of Information Security, Computer Vision and Natural Language Processing and help them discover possible research directions.

OBJECTIVES OF THE SHORT TERM COURSE (e-STC)

Information Security includes prevention of unauthorized access, use, disclosure, disruption, modification, recording or destruction of electronic or physical information. Machine learning can help mitigate cyber threats and bolster security infrastructure through pattern detection, real-time crime mapping and thorough penetration testing. Machine Learning also enables researchers to attempt to fulfil the elusive goal of Computer Vision. Computer Vision has huge applications in varied domains, from autonomous driving cars to elderly healthcare. Analyzing text data is a part of Natural Language Processing (NLP). NLP is a field in Artificial Intelligence enabling computers to understand natural (human) language. In the fields of Information Security, Computer Vision and NLP, deep learning techniques have taken a dominant position over traditional methods. Researchers have been reporting much higher performance metrics by applying deep learning to solve important problems in these domains.

This short term course, Machine Learning and its applications in Information Security, Computer Vision and Natural Language Processing, will provide essential knowledge and skills required to perform machine learning based research in information security, computer vision & natural language processing for important problems encountered in industry. A combination of lectures, case studies, and workshops will be used to cover various representative topics of interest, including Mathematical modelling for machine learning, Teaching engineered system with MATLAB and machine learning / deep learning with NLP, Image processing & computer vision, Signal processing and its applications in speech processing.

REGISTRATION FEE
a. Rs. 500 for participants from Academia/R&D Labs
b. Rs. 200 for students
c. Rs. 1000 for participants from Industry

REGISTRATION PROCESS
The interested participants should register by filling the Google form through the below link:
https://forms.gle/vqfQtTu8r8DVEEiZA

RESOURCE PERSONS
Faculty from IITs, NITs, other premier institutions/ organizations will deliver the lectures. Experts from DesignTech Systems Pvt. Ltd. will cover the hands-on sessions.

ELIGIBILITY
This program is open to faculty members, research scholars, PG & UG Students, and industrial personnel.

Organized by
Department of Computer Science & Engineering
National Institute of Technology, Hamirpur (H.P.) 177005
in association with

MathWorks®

DesignTech
Technology for designing the future
ISO 9001:2015 Certified

Last date of Registration: 10 January 2025

ORGANIZING COMMITTEE

Patron
Prof. Hiralal Murlidhar Suryawanshi, Director, NIT Hamirpur
Chairman
Dr. Siddhartha Chauhan, Associate Professor & Head, Department of Computer Science and Engineering
Convener
Dr. Arun Kumar Yadav, Assistant Professor, Department of Computer Science and Engineering
Coordinators
Dr. Jyoti Srivastava, Assistant Professor, Department of Computer Science and Engineering.
Dr. Mohit Kumar, Assistant Professor, Department of Computer Science and Engineering.
Treasurer
Dr. Arun Kumar Yadav, Assistant Professor, Department of Computer Science and Engineering
Organizing Committee
Faculties of CSE Department

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1989. The Department offers B.Tech. (CSE), M.Tech. (CSE, AI), B.Tech. and M.Tech. Dual Degree (CSE) and Ph.D. degrees. Our students graduate with more than 100% placement through campus and some of them are placed in more than one organization. The Department has well experienced and dedicated faculty members with different specializations. We have well equipped laboratories with state-of-the-art facilities like servers/workstations, desktops and mobile devices.

ABOUT THE INSTITUTE

The National Institute of Technology, Hamirpur is an Institute of National Importance. The Institute offers B.Tech, M.Tech and PhD programmes in various disciplines of Engineering, Humanities and Sciences. The Institute is functioning in a vast area of above 250 acres at Anu in Hamirpur district of Himachal Pradesh and is 4 Kms from main bus stand of Hamirpur on Mandi-Jalandhar National Highway (NH-70). The city of Hamirpur is well connected with the rest of the country by road. Nearest Railway Station: UNA (about 85 Km) Nearest Airport: GAGGAL (Kangra) (about 85 Km)

CONTACT US

Dr. Arun Kumar Yadav
ayadav@nith.ac.in, +91 8076374837

Dr. Jyoti Srivastava
jyoti.s@nith.ac.in

Dr. Mohit Kumar
mohit@nith.ac.in, +91 7678496661