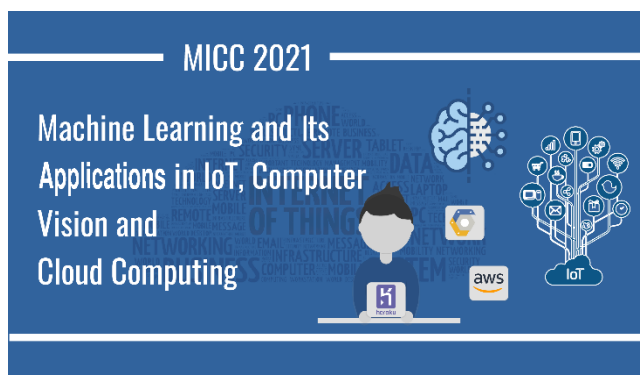


One Week Short Term Course
On
Machine Learning and Its
Applications in IoT, Computer Vision
and Cloud Computing
(MICC-2021)
September 20-24, 2021



Organized by
Department of Computer Science &
Engineering
Motilal Nehru National Institute of
Technology Allahabad
Prayagraj-211004, Uttar Pradesh, India

THE INSTITUTE

Motilal Nehru National Institute of Technology Allahabad is a premier National Institute of Technology (NIT) in India. It is committed to achieve quality and excellence in academic pursuits. Established in 1961, as a Regional Engineering College, a joint enterprise of Government of India (GOI) and Government of Uttar Pradesh, the institute was transformed into NIT on June 26, 2002. With the enactment of NIT Act-2007, the Institute has been granted the status of institution of national importance w.e.f. August 15, 2007.

The Institute offers various undergraduate and postgraduate programmes such as B.Tech. M.Tech. MCA, MBA, M.Sc., M.S.W and Ph.D. It has been recognized by GOI as one of the Quality Improvement Programme (QIP) centre for Ph.D. programs.

DEPARTMENT OF COMPUTER SCIENCE
AND ENGINEERING

For the first time in India under graduate course in Computer Science and Engineering was offered in 1977 under Electrical Engineering Department with a modest strength of 10 students. The department came into its independent existence on February 6, 1996. The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology in Computer Science & Engineering and Bachelor of Technology in Information Technology. It also offers a Master of Technology

in Computer Science & Engineering, Master of Technology in Software Engineering, Master of Technology in Information Security, and Master of Computer Application (M.C.A.). Further, the department enrolls candidates for Ph.D. program.

PRAYAGRAJ

The city of Prayagraj (Allahabad) is among the larger cities of Uttar Pradesh. It is situated at the confluence of three rivers- Ganga, Yamuna and the mythological Saraswati. Besides Sangam, it also has many governmental institutions which include Allahabad University, HRI, IIIT Allahabad, High Court of UP, AGUP, CDA Pension, State Government education board and various tourist places like Anand Bhawan, Khusroo Bagh, Chandra Shekhar Azad Park and Bharadwaj Park.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Prof. Rajeev Tripathi, Director, MNNIT Allahabad

Chairman

Prof. D. S. Kushwaha, Head, CSED

Course Coordinators

Prof. D. S. Kushwaha, CSED
Dr. Pragya Dwivedi, CSED
Dr. Sarsij Tripathi, CSED

Course Convener

Dr. Dinesh Kumar, CSED
Dr. Vibhav Prakash Singh, CSED

Student Coordinators

Mr. Prateek Pandey, CSED
Mr. Sanjay Gupta, CSED

ADDRESS FOR COMMUNICATION

Co-ordinator MICC-2021

Department of Computer Science and Engineering
Motilal Nehru National Institute of Technology
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E-mail: micc.mnnit2021@gmail.com

For any further information / assistance you may contact following student co-ordinators:
Mr. Prateek Pandey, CSED (9565637807)
Mr. Sanjay Gupta, CSED (9369033303)

INTRODUCTION

This course is aimed to have an extensive discussion on the machine learning and its applications in Internet of things, computer vision, cloud computing and emerging edge technologies. Machine learning is concerned with the study of computer algorithms that optimize their performance through the learning. The learning becomes better with time using experience. The same has been established as a major component for many software systems. Many automated computer programs have been invented to create spam filters, optimize energy costs based on particular usage pattern, analyze

customer behavior based on transactional data or provide useful information to users based on their preferences. This course aims to identify potential research directions and technologies in the domain of IoT, cloud computing, computer vision utilizing the machine learning.

TOPICS TO BE COVERED

- Basics of Machine Learning, Probability and Statistics, Data Analytics
- Supervised, Unsupervised and Reinforcement Learning
- Deep Learning methods
- Recommender Systems
- Machine Learning Applications in IoT
- Data Science for IoT Analytics
- Machine Learning Approaches for IoT Security
- Edge Intelligence using Machine Learning in Fog/Edge Computing
- Resource Provisioning in Cloud Computing using Machine Learning
- Machine Learning Applications in Computer Vision

WHO SHOULD ATTEND

The audience will include Faculties, Industry Personnel, PhD scholars, students enrolled in M.Tech. and B.Tech. Programme, who are interested in pursuing research in developing Machine Learning based models in IoT, Cloud Computing, Fog/Edge Computing and Computer vision. This course will be of value to

students, researchers, faculties as well as Industry Executives.

RESOURCE PERSONS

From Various IITs, NITs, and IT Industry and other eminent institutions.

IMPORTANT DATES

Receipt of Registration form along with fee details - 15/09/2021

Selection Notification - 16/09/2021

REGISTRATION

The short term course will be conducted in **online mode** during **September 20-24, 2021**. To register for this course the applicants will have to pay fees in advance as per the following details.

Category	Registration Fee in Rs. (GST Inclusive)
U.G. Students	590/-
P.G. Students	708/-
PhD Students	944/-
Faculties and Others	944/-

Registration link:

<https://forms.gle/NUZKxhbhGjGPsJ596>

Registration fee can be submitted in form of D.D. in favour of "MICC -2021" payable at Allahabad Or

NEFT/Mobile Banking/UPI

A/C Name: **MICC - 2021**

A/C Number: **77660200001293**

IFSC: **BARB0VJMNRE**

Branch: Bank of Baroda, MNNIT Allahabad Campus, Prayagraj, 211004