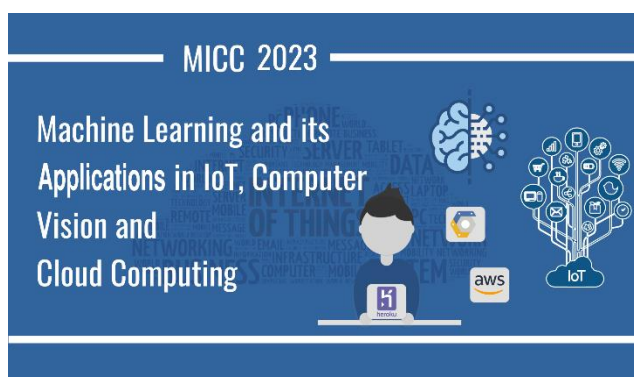


One Week Online Short Term Course
On
Machine Learning and its
Applications in IoT, Computer Vision
and Cloud Computing
(MICC-2023)
July 10-14, 2023



Organized by
Department of Computer Science &
Engineering
National Institute of Technology Jamshedpur
Jamshedpur-831014, Jharkhand, India

THE INSTITUTE

The National Institute of Technology Jamshedpur is a government-funded institution established in 1960 with the goal of producing skilled engineers for the country's economic growth. It was granted the status of an Institution of National Importance by the National Institutes of Technology Act, 2007. NIT Jamshedpur is located in the western part of Jamshedpur city, spread over 341.3 acres of hilly terrain, with the Kharkai river and forest as its backdrop. The institute offers undergraduate and graduate degrees in various disciplines, including engineering, science, and humanities. It has a faculty of 200 members, around 4000 students, and 150 administrative and supporting staff. Additionally, NIT Jamshedpur has been accredited by NBA for three undergraduate courses, and it has received research grants from TEQIP-III and DST.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering at the National Institute of Technology Jamshedpur, was formed in 1992. Since its inception, the department has always been recognized all over the country for its excellence. The Department has 20

faculties and the department consistently produced quality professionals in the field of Computer Science & Engineering and strived for excellence in research and development. The Department of Computer Science & Engineering offers courses leading to a Bachelor of Technology (Honours) in Computer Science & Engineering. It also offers a Master of Technology in Computer Science & Engineering, Master of Technology in Information Security and System Assurance, and Master of Computer Application (M.C.A.) and Ph.D.

COMMITTEE

ORGANIZING COMMITTEE

Patron

Prof. Goutam Sutradhar, Director, NIT Jamshedpur

Chairman

Prof. Danish Ali Khan, Head, CSE

Course Coordinators

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Dr. Dinesh Kumar, CSE

Dr. Jitesh Pradhan, CSE

Course Convener

Dr. Ashish Kumar Sahu, CSE

Dr. B Ramachandra Reddy, CSE

Student Coordinators

Mr. Harish Gavel, CSE

Mr. Adik Amiyan Tripathy, CSE

ADDRESS FOR COMMUNICATION

Co-ordinator MICC-2023

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For any further information/assistance you may contact following student co-ordinators:

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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 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. B.Tech. and MCA 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

Last date of Receipt of Registration form - **06/07/2023 (Thursday)**

Selection Notification - **07/07/2023 (Friday)**

REGISTRATION

The short term course will be conducted in **online mode** during **July 10-14, 2023**. The course is free of cost.

Registration link:

<https://forms.gle/dvonyhkuipQoCyAy9>

QR Code for Registration:

