

Registration Form

Interested participants are required to send a scan copy of the Registration Form and Payment details to infomlai2nitr@gmail.com

Name: _____

Gender: Male Female

Email ID: _____

Contact No.: _____

Category: Industry and R&D Personnel
 Faculty
 Research Scholar
 UG/PG Student

Organization: _____

Payment Details:

Rs. _____ Date of Transaction: ____/____/____

Transaction ID: _____

Signature of the Applicant: _____

<https://forms.gle/fUCpyBuGvqRdBpXd9>

OR

Use the following link/QR code for registration.



Address of Communication

Dr. Sandip Ghosal
Assistant Professor, Dept of ECE
Email: infomlai2nitr@gmail.com
Contact no: 8016175057

ABOUT NIT ROURKELA

National Institute of Technology Rourkela was founded as Regional Engineering College, Rourkela in 1961. It is a prestigious Institute with a reputation for excellence at both undergraduate and postgraduate levels, fostering the spirit of national integration among the students, a close interaction with industry and a strong emphasis on teaching and research in both basic and applied fields. The Institute houses twenty versatile departments across different fields of engineering, science, management, and humanities. Being an Institute of National Importance, it has been consistently ranked within TOP 20 engineering institutes for the last five consecutive years as per NIRF ranking of Ministry of Education, Government of India. It is ranked 15 in the NIRF Rankings 2022 of Indian Engineering Universities.

COURSE OVERVIEW

This Hands-On Workshop on “Machine Learning: An Industry-Academia Initiative” brings a unique opportunity for PG/UG students, research scholars, and academicians across various engineering disciplines and mathematics to explore the potential applications of artificial intelligence and machine learning (AI/ML) in various industrial sectors and academic research domain. This program will help participants not only to grasp the fundamental theory and recent advancements in machine learning but also their applications through hands-on training. In this era of interdisciplinary research and practice, machine learning concepts are widely used across various engineering domains and in basic science. Therefore, the fundamental knowledge of machine learning and intelligent optimization techniques enables one to think, create, and efficiently use theoretical concepts in solving real-world problems in their respective domains. Henceforth, this is an attempt to get domain experts from reputed industries like *MathWorks*, *Phillips*, *Hitachi Energy*, *TATA Steel*, *NVIDIA*, etc., as well as premier institutes of India and abroad, to provide participants a holistic exposure to the emerging trends in the field of AI and ML.

Hands-On Workshop On Machine Learning: An Industry Academia Initiative

December 11 - 15, 2023

Patron

Prof. K Umamaheshwar Rao
Director (NIT Rourkela)

Chairperson

Prof. Poonam Singh
HOD (EC), NIT Rourkela

Coordinators

Dr. Sandip Ghosal
&

Dr. Saptarshi Chatterjee

Department of Electronics and
Communication Engineering,
NIT Rourkela



Organized by,

Department of Electronics and
Communication Engineering,
National Institute of Technology Rourkela,
Rourkela- 769008, India

<https://website.nitrkl.ac.in/EC/>

Technical Cosponsors



Objective

- To impart knowledge of fundamental principles, challenges, and recent advancements in machine learning applications for students, researchers, and academicians.
- To provide hands-on experience on implementing various case studies of machine learning applications.
- To introduce cutting-edge research trends in theoretical and applied machine learning in signal processing and communication.
- To enhance the job skill of the student community through industry-academia collaborative platform of discussion

Application Area

The following application areas will be covered with possible simulation/hands-on demonstration:

- Beyond 5G and 6G Communication
- Computer Vision
- Cyber-physical systems
- Antenna/Radar Communication
- Signal/Image Processing
- Medical Image Processing
- Energy Analytics
- Optimization and Game Theory

Workshop Includes

Five Days Training will be taken by a group of experts from India and Abroad from industry and academia. The training hour is 6 hours each day. Mode of training is Instructor-led live online with technical support from MathWorks.

- 30 Hours Instructor-led live online Hands-on based learning & Interactive Query Session.
- Soft copy of course material, Training PPTs
- Participants will get recorded sessions after completion of training

Key Speaker

- Mr. Chandan Pramanik, Director, MathWorks Education
- Prof. Snehashish Chakraverty, NIT Rourkela
- Prof. Poonam Singh, NIT Rourkela
- Dr. Riddhi Ghosh, Hitachi Energy, Sweden
- Prof. Santu Rana, Deakin University, Australia
- Mr. Sujit Koley, Phillips
- Prof. Amitava Chatterjee, Jadavpur University
- Prof. Samit Ari, NIT Rourkela
- Dr. Anand Mukhopadhyay, MathWorks
- Dr. Rwitam Jana, Tata Steel
- Prof. Umesh Chandra Pati, NIT Rourkela
- Mr. Prateek Jain, NVIDIA
- Prof. Debangshu Dey, Jadavpur University
- Dr. Monalisa Pal, MathWorks
- Dr. Samiran Das, Helmholtz Institute Freiberg, Germany
- Mr. Shuvadip Koley, University of Surrey, UK
- Prof. Nilanjan Biswas, NIT Durgapur
- Dr. Sudeshna Sil Kar, Emory University, USA
- Prof. Subrata Maiti, NIT Rourkela

Important Guidelines

Faculty members, Research scholars, UG/PG students of different institutes, and R&D and Industry personnel can apply for the workshop.

- **Registration Fee (including 18%GST):**

Research Scholars (PhD/PDF): INR 1180/-
Students UG/PG: INR 590/-

Faculty, Industry and R&D personals: INR 1770/-

- **For Foreigners:**

Students UG/PG: 80 USD

Research Scholars (PhD/PDF):100 USD

Faculty and Others: 150 USD

- **Mode of Payment:**

Online payment should be made in favor of the following:

Account Name: CONTINUING EDUCATION
NIT ROURKELA

Payable Bank: [State Bank of India](#)

Branch: [NIT Campus, Rourkela-769008](#)

Account No.: [10138951784](#)

IFSC Code: [SBIN0002109](#)

MCIR No.: [769002007](#)

SWIFT Code: [SBININBB137](#)

- **NB:**

Only a complete registration form (with proof/details of online transaction) will be considered.

The registration fee is non-refundable.

E-Certificate will be provided for the candidates attending all the sessions.

There is no registration fee for the participants from the host institute.

Mode: *Virtual*

