MOSH-2026

ANRF & DHR , Govt. Of India, Sponsored

Five Days National Workshop on Bridging Theory and Practice: Machine Learning Opportunities and Challenges in Smart Healthcare

December 1-5 , 2026

About the Workshop

This workshop shall be a premier forum designed to deliver a technological paradigm for developing health diagnosis and monitoring software tools. It will explore modern artificial intelligence (AI), machine learning and data analytics to make healthcare smart, user interpretable and accessible to health professionals and patients. The workshop will feature theoretical discussions and practical sessions focused on applied AI for the automatic and early diagnosis of different health hazards. The scope of the workshop is listed below :

- Develop foundational knowledge of AI, ML, data analytics and their applications in smart healthcare systems for early disease diagnosis and continuous health monitoring.
- Provide hands-on training in medical data preprocessing, ML model development and predictive analytics for designing decision-support systems
- Enhance interdisciplinary skills among software developers, researchers, doctors and faculty members by integrating healthcare domain knowledge with computational intelligence and programming techniques.
- Create awareness of the ethical, legal and regulatory aspects of AI in healthcare.

About BIT Mesra

The Birla Institute of Technology was established in1955 at Mesra, Ranchi, Jharkhand by the philanthropist and industrialist Mr. BM Birla, as part of his lifelong commitment towards building a technologically advanced and industrially strong India. The achievements of the institute, both in terms of research and excellent standards of academic programmes led to it attaining the status of a Deemed University under the UGC Act of the Government of India, in 1986, and one of the top Technical Institutes of the country today. BIT offers undergraduate, postgraduate as well as doctoral level programmes in all major branches of engineering and technology, architecture, pharmaceutical sciences as well as management. The institute has laterally expanded through establishment of several extension centres in India. In India BIT has extension centres at Noida, Jaipur, Deoghar, and Patna.

About Department

The Department of Computer Science and Engineering at BIT Mesra was established in 1983 and is a pioneer in the region for higher education and research in computer science. The department focuses on cutting-edge research in AI, machine learning, data science and smart systems, and offers undergraduate, postgraduate and doctoral programmes with state-of-the-art computational facilities.



Target Participants : **Students (UG/PG), research scholars, faculty and staff members, medical practitioners, doctors and industry professionals from disciplines such as Computer Science, Electronics and Communication Engineering, and Electrical Engineering will benefit from this workshop.**

Keynote Speakers

Dr. Ginu Khan
(Scientist D, DHR, Govt. of India)

Prof. Amitava Chatterjee
(Jadavpur University)

Prof. Narendra Nath Singh
(RIMS Ranchi)

Dr. Anup Nandy
(NIT Rourkela)

Dr. Sambit Bakshi
(NIT Rourkela)

Dr. Scindhiya Laxmi
(IIT (ISM) Dhanbad)

Dr. Anup Kumar Halder
(IIITDM Kurnool)

Dr. Deepak Ranjan Nayak
(MNIT Jaipur)

Prof. Raju Poddar
(BIT Mesra)

Dr. Kuntal Ghosh
(ISI Kolkata)

Dr. Ritika Jain
(IIT Guwahati)

Course Contents

- Machine intelligence in healthcare
- Smart rehabilitation systems
- Large Language Models (LLMs) in healthcare
- Deep learning for medical diagnostics
- Hands-on programming sessions using Python on applied machine learning

Important Dates

Registration starts:
November 3, 2026

Registration ends:
November 26, 2026

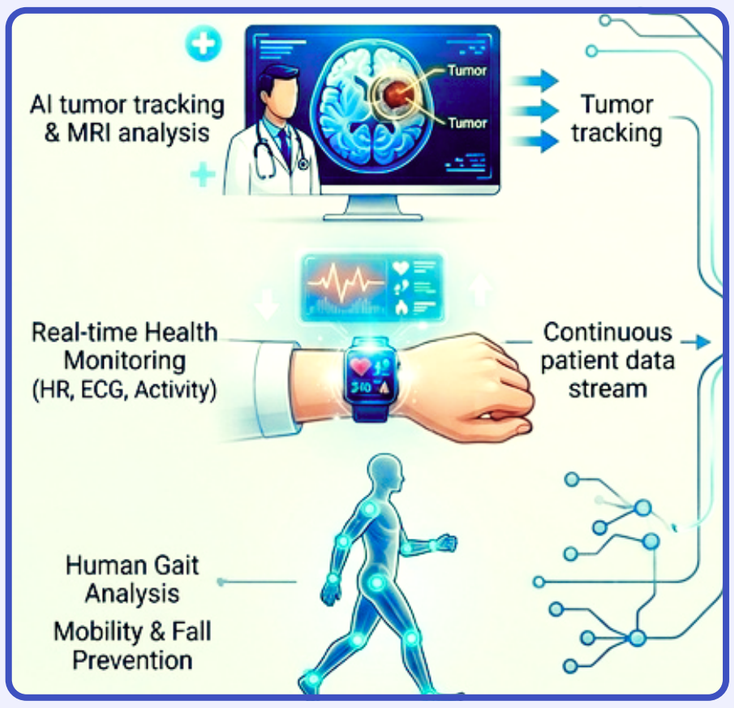
Workshop dates:
December 1-5, 2026

Registration Fee

Students /Research Scholars
INR 500 + 18% GST

Faculty, Doctors & Industry Professionals
INR 1000 + 18% GST

Scan & Register



Payment Details

SBI Collect : Click here for Payment

After Payment – Complete Your Registration After completing the payment, participants are requested to fill the online registration form, which is mandatory.

Scan & Pay

Registration Form : Click here for Registration

Certificates will be provided to the registered participants upon successfully completing the workshop.

Organizing Committee

Patron

Prof. (Dr.) Indranil Manna
Vice Chancellor, BIT Mesra, Ranchi

General Chair

Prof.(Dr.) Abhijit Mustafi
Head, CSE, BIT Mesra, Ranchi

Workshop Conveners

Dr. Saikat Chakraborty
saikat.chakraborty@bitmesra.ac.in

Dr. Jamimamul Bakas
jamimamul.bakas@bitmesra.ac.in

Contact and Queries: Please send your queries directly to the workshop conveners at the above email addresses .

ORGANIZED BY : DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI