AI/ML *for* MATERIAL SCIENCES

A HANDS-ON WORKSHOP FOR RESEARCH & INNOVATION

WHAT YOU'LL LEARN

ML BASICS
Supervised learning:
Regression & Classification

NEURAL NETWORKS
Unsupervised learning using
CNN & Graph Neural Networks

MATERIALS MODELLING
Machine learned interatomic
potentials: Construction & Use-cases

ADVANCED AI
Generative models &
Transfer learning

WHO SHOULD ATTEND?

Research students in
Physics, Chemistry, Life Sciences
and related fields

Faculty members from
Universities, Institutes & Colleges

FREE REGISTRATION **LIMITED SEATS !**

AT A GLANCE

2 - DAYS WORKSHOP

23 – 24 SEPTEMBER 2026

VENUE

School of Physical and Applied Sciences, Block H, Goa University

SPEAKER

Sai Gautam Gopalakrishnan

Indian Institute of Science, Banglore

ABOUT THE SPEAKER

- Associate Professor at IISc working on AI-driven computational materials science & materials informatics
- Works on energy materials (batteries, photovoltaics) and predictive modeling
- Recepient of Manohar Parrikar Yuva Sceintist award 2025

ORGANISING COMMITTEE

COORDINATOR
Dr. Bholanath Pahari

ORGANISING MEMBERS
Dr. Bhargav Alavani | Dr. Pallavi Gaude
School of Physical and Applied Sciences (SPAS), Goa University

PATRON
Honorable Vice-Chancellor
Goa University

CO- PATRON
Dean
School of Physical and Applied Sciences

CONTACT DETAILS

Dr. Bholanath Pahari
bholanath.pahari@unigoa.ac.in
+91 8669609211

ORGANIZED BY

School of Physical and Applied Sciences, Goa University

LEARN • CONNECT • INNOVATE

SHAPING THE FUTURE OF MATERIALS WITH AI

23rd September, 2026, Wednesday

09:00 a.m. Registration & Brief Inauguration
09:30 a.m. Session-1:
Basics of Supervised ML-Regression & Classification Models
11:00 a.m. Tea Break
11:30 a.m. Tutorial for Session-1
01:00 p.m. Lunch Break
02:00 p.m. Session-2A:

- Unsupervised ML-Deep Learning
- Unsupervised ML-graph Neural Networks

3:30 p.m. Tea Break
04:00 p.m. Session-2A:

- Tutorial for Session

05:30 p.m. End of Sessions

24th September, 2026, Thursday

09:30 a.m. Session-3:

- Machine-Learned Interatomic Potentials

11:00 a.m. Tea Break
11:30 a.m. Tutorial for Session-3
01:00 p.m. Lunch Break
02:00 p.m. Session-4A:

- Advanced AI/ML Transfer Learning
- Advanced AI/ML-Language Models
- Advanced AI/ML-Diffusion Models

03:45 p.m. Tea Break
04:00 p.m. Session-4B:

- Tutorial for Session

05:30 p.m. Closing Ceremony

Funded by

Goa University

Department of Science and Technology & Waste Management, Government of Goa