



A National Workshop on Artificial Intelligence and Machine Learning in Public Health: Applications and Responsible AI



Organized by School of Humanities and Social Sciences, IIT Mandi | In collaboration with IASSH (Indian Association for Social Science and Health)

14-18 December 2026 (5 Days) | Venue: Indian Institute of Technology Mandi, Kamand, Himachal Pradesh

About the Workshop

Public health research is increasingly shaped by large-scale survey, clinical, surveillance and geospatial data, creating both opportunity and responsibility for researchers applying Artificial Intelligence (AI) and Machine Learning (ML) methods. This five-day national workshop brings together researchers from public health, epidemiology, statistics, economics, medicine and computer science to build rigorous, interdisciplinary and responsible AI/ML to build research capacity in the areas of public health.

The programme moves from foundational concepts through predictive modelling, real-world epidemiological applications, and advanced/generative AI, with a strong emphasis on applying these skills to real-world research problems and developing practical research insights under expert guidance.

Objectives

- Build conceptual and applied AI/ML capacity among faculty, PhD scholars and researchers working on public-health problems.
- Train participants in data preparation, predictive modelling, validation and performance evaluation using health datasets.
- Introduce advanced methods like deep learning, Natural Language Processing (NLP) and generative AI, alongside explainable and responsible AI practices.
- Support participants in developing interdisciplinary AI/ML research proposals with expert feedback.

Who Should Attend

Faculty members, scientists, PhD scholars and advanced postgraduate students from Public Health, Medicine, Epidemiology, Statistics, Economics, Data Science, Computer Science, Engineering and allied disciplines. Preference will be given to researchers actively engaged in public health, population-data or AI/ML-related research.

Programme Highlights

Day	Focus Area
Day 1	AI/ML foundations and formulating public-health research questions
Day 2	Machine learning for prediction, classification and model validation
Day 3	AI/ML applications in epidemiology and population health
Day 4	Deep learning, NLP, generative AI and responsible AI
Day 5	Research protocol development, group presentations and mentoring

Registration

Registration Fee: ₹2,500 per participant (inclusive of food) – will be paid after the confirmation of selection

Registration Window: 10th September 2026 – 25th September 2026

Seats: Limited to 40 participants only

Accommodation charges and other logistical details are provided in the registration form

Registration Link

<https://forms.gle/heiW4U9Xg9FKu5cf6>

Key Dates

Events	Date
Registration opens	10 September 2026
Registration closes	25 September 2026
Confirmation of selection	5 October 2026
Workshop dates	14 -18 December 2026

Organizing Committee

Convener: Dr. Ramna Thakur, School of Humanities and Social Sciences, IIT Mandi

Collaborators: Indian Association for Social Science and Health (IASSH) - Prof. R. Nagarajan (President, IASSH), Dr. V. Selvaraju (General Secretary, IASSH) and team

Local hosts: Shivani Kumaria, Bhanupriya Pareek, Prateek Singh, Tarsem Kasnia, Atma Prakash

Contact us

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