13th Annual Conference of the
Indian Health Economics and Policy Association

IHEPA
Indian Health Economics and Policy

Health, Nutrition, and Wellbeing: Evidence, Evaluation, and Way Forward

Organized by

School of Humanities and Social Sciences
Indian Institute of Technology Mandi

December 10th-13th, 2025   Venue: IIT Mandi, Himachal Pradesh

Pre-Conference Workshop

Workshop-2: Health Econometrics and Machine Learning (ML) using Python

Resource person: Dr. Subrata Mukherjee (University of Mumbai, Mumbai)
This workshop bridges traditional health econometrics with cutting-edge machine learning using Python. Participants will learn to analyse health datasets through both econometric modelling (linear/logistic regression) and ML techniques (Random Forests, LASSO), while gaining skills in text analysis of health documents. Designed for health economists and policy researchers, the curriculum covers the full analytical pipeline from data preprocessing to advanced modelling using Python's scientific stack.

Objectives of the Workshop
To equip young researchers with integrated econometric and ML skills to:
- Implement regression models (linear/logit/probit) with diagnostic testing.
- Build and evaluate machine learning algorithms for health prediction.
- Process and visualise health data using Python's scientific ecosystem.
- Conduct text mining on health documents using NLP techniques.

Course Content
Hands-on sessions with health datasets and text corpora:
1. **Python Foundations for Health Analysis**
2. **Econometric Modelling**
3. **Machine Learning Applications**

Total seats: 25 (preference will be given to early career researchers)
Registration link: https://forms.gle/dQC6rLgGqSNaPUPAA
Last date for application: 15th September 2025