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

Pre-Conference Workshop Schedule

Workshop-2: Health Econometrics and Machine Learning using Python

Resource Person: Dr Subrata Mukherjee

Professor

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Day-I: Wednesday, December 10, 2025, Venue: A18-2A	
07:45 am – 09:00 am | Breakfast | Oak Mess	
09:15 am-10:50 am	Installation of Anaconda; launching of Jupyter Notebook, Basic codes of Python; importing essential packages and modules
10:50 am - 11:10 am	***Tea Break (20 min)***
11:10 am - 01:30 pm	Reading data; pre-processing data for analysis; summary statistics using *statistics*, *numpy* and *scipy*
01:30 pm - 02:30 pm	***Lunch Break (60 min)***
02:30 pm - 04:00 pm	Data visualisation using matplotlib and seaborn
04:00 pm - 04:15 pm	***Tea Break (15 min)***
04:15 pm - 05:30 pm	Linear and Logit/Probit Regressions and Regression Diagnostics using *statsmodels*
Day-II: Thursday, December 11, 2025, Venue: A18-2A	
07:45 am – 09:00 am | Breakfast | Oak Mess	
09:15 am - 10:50 am	An overview of Machine Learning Modelling techniques; comparison with Statistical/Econometric Modelling; Classification And Regression Trees (CART) using *scikit-learn*
10:50 am - 11:10 am	***Tea Break (20 min)***
11:10 am - 01:30 pm	Random Forest Regression and Classification Models and Evaluation Matrix using *scikit-learn*
01:30 pm - 02:30 pm	***Lunch Break (60 min)***
02:30 pm - 04:00 pm	LASSO and Ridge Regressions using *scikit-learn*
04:00 pm - 04:15 pm	***Tea Break (15 min)***
04:15 pm - 05:30 pm	Text analysis using *re*, *nltk*, *gensim* and *wordcloud*
05:30 pm - 06:30 pm	**Closing session and Group feedback session**

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Participants

1. Aparna Sharma
2. Bhanupriya Pareek
3. Dr Sunil Khosla
4. Isha Tanwar
5. Jatinder Singh
6. K Vikas Sreevatsa
7. Kripa Nandan
8. Kshirabdhi Tanaya Patra
9. Dr Masudul Hasan Adil
10. Md Mohsin
11. Nary Kirit Parmar
12. Pramit Chhetri
13. Pubali Das
14. Raza Mohammad
15. Sachin saini
16. Shruti Hiremath
17. Shubham Ranjan
18. Trupti sakshi
19. Vaishnavi Singh
20. Nirmal Singh