

Mukta Jain

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Education

- 2018 – Now **PhD Economics**
Delhi School of Economics
University of Delhi
- 2016 – 2018 **M.A. Economics**
Ambedkar University
Delhi | 7.63 CPI
- 2013 – 2016 **B.A. Honors, Economics**
College of Vocational Studies
University of Delhi | 74.23 %

Experience

Teaching Fellow - *Ashoka University (Spring 2023)*
Course - Introduction to Economics

Publications - Conference

Analyzing Micro-Level Rebound Effects of Energy Efficient Technologies

with Mayank Jain, Dr. Tarek AlSkaif, Dr. Soumyabrata Dev
NeurIPS 2022 - Tackling Climate Change with Machine Learning
Establishing appliance level rebound effects upon shift to more efficient and substitutable counterparts.

Impact of Load Demand Dataset Characteristics on Clustering Validation Indices

with Mayank Jain, Dr. Tarek AlSkaif, Dr. Soumyabrata Dev
2021 International Conference - SEST
Generating methodology to recommend best CVIs in unsupervised learning to cluster the Electricity Load Demand Dataset

Ongoing Projects

Automation, Patience and Employment

with Dr. Mausumi Das, Dr. Ayona Bhattacharjee
Modeling & empirically testing justification for differential adoption of automated & artificially intelligent technologies across the world.

Can Sustainable Energy Rebound? A Behavioral Experiment

with Mayank Jain, Dr. Tarek AlSkaif, Dr. Soumyabrata Dev
Model and empirically test significance of rebound effects and other behavioral changes upon introduction of Sustainable Energy

Identifying Vulnerable Households of India

with Dr. Anirban Kar
Devising a new vulnerability index to empirically identify vulnerable households using machine learning models.

Technical Skills

Stata, R, C++, python - TensorFlow, Pandas, Numpy
Matplotlib, Adobe Photoshop, HTML, CSS, L^AT_EX

Publications - Journal

Which internal validation indices to use while clustering electric load demand profiles?
with Mayank Jain, Dr. Tarek AlSkaif, Dr. Soumyabrata Dev
2022 Sustainable Energy, Grids and Networks, Elsevier
Exhaustive methodology to determine the choice of CVI in unsupervised clustering of electric load demand profiles.

Awards and Certificates

- CDE Fellowship for Jan 2019-June 2023, Centre of Development Economics, Delhi School of Economics, University of Delhi
- UGC-NET Qualification Certificate in Economics, November 2017
- Academic Merit Scholarship, MA Economics, Ambedkar University, Delhi
 - Winter Semester (2017-18)
 - Monsoon Semester (2017-18)
 - Winter Semester (2016-17)
 - Monsoon Semester (2016-17)
- Academic Award and Scholarship, B.A. Honors Economics, College of Vocational Studies, University of Delhi
 - First Year - *IInd* Position
 - Second Year - *IIIrd* Position
 - Third Year - *IIIrd* Position

Courses

Deep Learning Specialization

Coursera Course - By Andrew NG et al

Data Science Ethics

Audit: Coursera Course - By University of Michigan et al

Other Activities

- Student Seminar Coordinator for year 2020-21 for conducting seminars at Delhi School of Economics.
- Member of Organizing Committee of Conference on Economic Theory and Policy, held at Ambedkar University Delhi, during 9-10 March 2018
- Elected member of Student Faculty Committee (SFC), MA Economics, Ambedkar University (2016-17)
- Volunteer at Winter School (2018-2022) - Annual Conference by Delhi School of Economics
- Participated in Gyanodaya Educational Trip and researched on "Banaras : Kashi then Varanasi now" - studied evolution of Banaras city in past century
- Cleared Praveshika (2005-06) and First Year Examination (2006-07) in *Bharatnatyam* from Prayag Saangeet Samiti, Allahabad