GAURAV CHOUDHARY

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EDUCATION

Shiv Nadar University, India **August 2020 - May 2024**
Bachelor of Science (Research) in Economics, Minor in Mathematics **CGPA: 8.66/10**

· Dean's List Awardee, Monsoon'22 and Monsoon'23
· Award for Best Undergraduate Thesis in Economics
· Relevant Coursework: Advanced Econometrics, Advanced Microeconomics, Macroeconomics, Mathematical Statistics, Machine Learning, Multivariable Calculus, Linear Algebra

INTERNSHIPS

University of Melbourne **June 2021 - July 2021**
Research Assistant

· Worked under Dr. Subrato Banerjee to develop a database on the prevalence of p-hacking in clinical trials
· Learnt about and contributed to the development of alternate probabilistic tools for measuring statistical significance in experiments

Climate Circle **May 2023 - August 2023**
Analyst

· As an analyst, identified trends and investments related to clean technology and environmental sustainability
· Talked to regulators to potentially build custom carbon credit assessment methodologies for the firm's environmental projects
· Monitored and analysed regulatory changes to understand their impacts on company performance

PROJECTS

Electric Vehicles and Pollution in India (Undergraduate Thesis, Ongoing)

· Econometric analysis of the impact of electric mobility adoption on PM2.5 levels across Indian districts
· Modelling novel geospatial and vehicle registrations data, currently using a two way fixed effects model

Stock Market Modelling with Complex Networks (Undergraduate Research Project, Ongoing)

· Building a network of the Indian stock market using high-frequency data to model structural changes
· Building time-varying recurrent networks to characterize market contagion using tools from time-series analysis and dynamical systems
· Python libraries used - Yfinance, Numpy, Pandas, Statstools, Pyunicorn, Math, Scikitlearn

Poverty Evaluation of Kenya

· Worked on a course project where I looked at Kenya's poverty statistics and the programs surrounding it
· Extensively used STATA to empirically analyse the poverty status of Kenya on multiple parameters like the Multidimensional Poverty Index, Gini, etc.

Delivery Duration Prediction Using ML

· Used Pandas and Datetime libraries for data wrangling and pre-processing
· Used Matplotlib and Numpy to perform multicollinearity checks in data and get rid of redundancies to make ML model training faster
· Used Scikitlearn to build and train ML models to perform the predictions, with model evaluation based on RMSE

TECHNICAL STRENGTHS

Programming Languages/Software	C, Python, R, SQL, STATA
Libraries	Keras, Tensorflow, Numpy, Pandas, Statstools, Scikitlearn, Shapely, Geopandas

EXTRACURRICULARS

Economics Society, Shiv Nadar University

· Head of Content and Co-Editor for the Economics Society's Annual Newsletter, which curated articles from gaming, healthcare, international finance, etc.
· currently hosting a podcast where I talk to researchers and economists on wide-ranging topics to make their insights accessible to students