Ayushmaan Dev Verma

First Year PhD Student
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Employment

Axtria - Ingenious Insights

Analyst, Commercial Excellence (Delhi - NCR) Jan 2024 - Jul 2024

Piramal Capital and Housing Finance

Intern, Business Intelligence Unit (Mumbai - Remote) Jan 2022 - Apr 2022

Education

University of Edinburgh - MSc Mathematical Economics and Econometrics 2022-23

Grade: *Distinction*

Indian Institute of Technology, Bombay - BS Mathematics 2018-22

CGPA: *7.57/10*

Publications

Journal Articles

Verma, Sandeep and Verma, Ayushmaan Dev (June 10, 2024). "AI and Public Procurement: Selected Use Cases and Some Preliminary Reflections from India", Available at SSRN: https://ssrn.com/abstract=4924801

Theses

Master's Thesis (MSc Mathematical Economics and Econometrics) (*Link*) 2023

Equilibria in a Signalling Model with Multi-dimensional Abilities

Bachelor's Thesis (BS Mathematics) (*Link*) 2022

A Refined Fixed-Effects Estimator to Detect Fraudulent Action

Awards and Scholarships

KVPY Scholarship, Indian Institute of Science (IISc) Bengaluru and Govt. of India 2018

Non-Academic Projects

World of Python and R: A collection of repositories of coding projects in R and Python, made by myself and Dipanshu Sharma (*Github Organisation Link*)

Cryptocurrency Analysis and Forecasting Dashboard (*Project Link*) 2021

Stock Market Analysis and Trading Dashboard (*Project Link*) 2020

Courses and Skills

1. *Economics and Econometrics*: Construction Economics and Finance, Game Theory and Economic Analysis, Industrial Economics, Managerial Economics, Microeconomics, Macroeconomics, Econometrics, Time-Series Econometrics, Analytical Techniques in Macroeconomics, and Labour Economics
2. *Mathematics*: Functional Analysis, Partial Differential Equations, Basic Number Theory, General Topology, Measure Theory, Ordinary Differential Equations, Graph Theory, Introduction to Numerical Analysis, Multivariable Calculus, Complex Analysis, Linear Algebra, and Real Analysis
3. *Statistics*: Combinatorics, Probability Theory, Optimisation, Introduction to Derivative Pricing, and Probability and Stochastic Processes
4. *Computer Science, Data Analysis, and Machine Learning*: Statistical Machine Learning and Data Mining, Introduction to Machine Learning, Data Analysis and Interpretation, and Computer Programming
5. *Programming Languages*: Python, R Programming, LaTeX, STATA, SQL, MATLAB, and C/C++
6. *Software/Tools*: Anaconda, Spyder, R Studio, Microsoft Office, and PowerBI