

Mugdha Basarkar

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Profile

Analytical researcher with interest in economic assessments, sustainability, and data-driven insights. Proficient in Python and R, with a strong track record in Research and Analysis. Looking for opportunities in consulting and research.

Education

Paris School of Economics and Ecole des Ponts ParisTech, France [September 2024 - August 2025]
MSc Sustainable Impact Analysis: Received Academic Scholarship.

University of Bath, UK [October 2022 - October 2023]
MSc Applied Psychology and Economic Behaviour: Graduated with Merit.

University of London (Academic Direction by London School of Economics) [September 2019 – June 2022]
BSc Economics: Top 1 percentile in Mathematics (100/100) and Monetary Economics (75/100).

Work Experience

SUEZ

Economic Consultant [October 2024 to Present]

- Reported a techno-economic assessment for the treatment of micropollutants as per the new Urban Waste Water Treatment Directive guidelines.
- Analysed the technical and economic data to find out the treatment plants in need for quaternary treatment of micropollutants.
- Performed a technical assessment of all the technologies available for the quaternary treatment to assess the fit for different treatment plants.
- Modelled a cost-benefit approach to find the effect of additional tariffs on consumers and analysed the extended producer responsibility for the project.

UNIVERSITY OF MICHIGAN

Field Researcher [June 2024 to July 2024]

- Assistant to a PhD student analysing the awareness and penetration of the SVAMITVA policy by the Government of India
- Conducted field research in rural India across 17 villages and 2 districts of Maharashtra, India.
- Organised and performed focus group discussions to understand themes under rural development such as tax collection, property rights and loan attainment
- Interviewed several levels of government officials in the Panchayat body to understand motivations behind tax collection.
- Performed door to door pilot surveys to understand motivations behind gram panchayat voting.

UNIVERSITY OF BATH

Research Assistant [October 2022 – January 2023]

- Built an online trading simulation by coding on software (Psychopy) and executed it as a part of an experiment to judge the risk attitudes among investors.
- Utilized data analysis techniques to present findings and recommendations for experiment design.
- Recruited participants for the experiment and utilised advanced techniques like eye-tracking to measure variables.
- Conducted literature reviews of more than 50 studies to identify and execute the experiment.

Publication and Dissertation

Indian Stock Market Efficiency During COVID-19

Published in Delhi Business Review, this research assessed the weak-form efficiency of the Indian stock market during the COVID-19 pandemic. Using statistical tests, we found that the market was inefficient, suggesting potential for abnormal returns through technical analysis.

Risk Attitudes in Cryptocurrency Investing

A survey compared risk tolerance and loss aversion between professional and amateur cryptocurrency investors. Professionals exhibited higher risk tolerance and lower loss aversion, suggesting a more aggressive investment style. However, comparisons between traditional and cryptocurrency investors revealed mixed results.

Certificates

- Financial Modelling and Valuation:** Investment Decision Techniques, Application of Decision Techniques, Financial Statement Analysis and Valuation Modules.
- Introduction to Programming Using Python:** Understanding the Statistics for Data Science, Predictive Modelling, Basics of Machine Learning, Analysis of Investment Decision Techniques, Financial Statement Analysis and Valuation.

Skills

- Technical Skills:** Data Analysis, Experiment Design, Financial Modelling, R, Python, Microsoft Office.
- Soft Skills:** Collaboration, Communication, Team Management, Problem Solving, Presentation.
- Languages:** English(Advanced) , Hindi(Advanced) , Marathi(Advanced), French(Beginner)