

Tanushree Dutta

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PROFILE SUMMARY

Experienced public policy professional with a focus on empirical economic analysis. My experience spans various domains, including teaching, forecasting, data analysis and contract management enabling me to contribute effectively to strategic projects and policies. The quality of being an understanding team player helped me to oversee complex projects while maintaining a focus on quality and adherence to timelines. With a solid academic foundation, including a Master's in Economics I am eager to leverage my expertise in making data informed policy decisions while continuously advancing my skills in data analytics.

Education

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|---------------|----------------------------------------------------------------------|-------------|
| MS | Shiv Nadar University , Economics | 2014 – 2016 |
| | • % of Marks: 87.50 | |
| BA (H) | Atma Ram Sanatan Dharma College, Delhi University , Economics | 2011 – 2014 |
| | • % of Marks: 72.88 | |

Work Experience

Airports Authority of India

Assistant Manager, Corporate Planning and Management Services

New Delhi, India
April 2019 – Present

- **Project Management:** Managed contracts end-to-end, including drafting RFPs, cost estimation, conducting technical evaluation of bidders, awarding of contracts, processing payments and handling arbitration when necessary.
- **Data Analysis**
 - *Passenger Traffic Forecast:* Forecasted passenger footfall at airports using time series analysis and econometric modelling. Monitored the accuracy of forecast by comparing forecasted data with actual traffic data and analyzed the discrepancies by correlating them with real world events that impacted the aviation sector.
 - *Traffic Potential Analysis:* Analysed the traffic potential of airports through economic and tourism analysis and also analyzing existing modes of transportation in that state.
 - *Surveys:* Analyzed data from biannual customer satisfaction surveys conducted across approximately 60+ Airports Authority of India's airports, surveying around 90,000 passengers and generating datasets of around 1.3 million data points per round.
 - *Pre-Survey Work:* Calculated sample size of each airport based on traffic trend analysis.
 - *Post-Survey Work:* Performed data cleaning and prepared comprehensive reports to assess airport's performance over time. Ensured genuineness of surveys by employing various measures, including monitoring completion time, assessing response similarity and analyzing the bundling of surveys within specific time frames.
- **Capacity Assessment:** Assessed airport capacity by analyzing historical traffic trends and conducting surveys to evaluate processing times at each counter. Determined the capacity of airport during peak hours and identified bottlenecks within the terminal.

Ministry of Commerce and Industries

Consultant , Office of Economic Advisor, Udyog Bhawan

New Delhi, India
April 2018 – March 2019

- Analyzed the trend of Index of Industrial production and industrial policies. It also involved application of data quality checks in order to make the index as representative as possible.

Lal Bahadur Shastri National Academy of Administration

Teaching Associate (Economics)

Uttarakhand, India
February 2018 – March 2018

- Assisted in designing course curriculum of economics for IAS Batch 2017.

Delhi School of Economics

Research Assistant, Dr. Deepti Goel

New Delhi, India
May 2016 – August 2016

- Performed literature review of the papers related to labour economics.

Teaching Assistantships during Postgraduate Studies

As a Teaching Assistant, I conducted tutorials and evaluated answer sheets for undergraduate students.













New Delhi, India
August 2014 – May 2016

- Teaching Assistant for Labour Economics under Prof. Shampa Bhattacharjee (January 2016 – May 2016)
- Teaching assistant for Development Economics under Dr.Gitanjali Sen, Shiv Nadar University(August-2015- December 2015)
- Teaching assistant for Principles of Macroeconomics under Dr.Suchismita Tarafdar, Shiv Nadar University (January 2015-May 2015)
- Teaching assistant for Intermediate Microeconomics under Dr. Gitanjali Sen ,Shiv Nadar University(August 2014- December 2014)

Internships

Interned at Indian Institute of Foreign Trade (December 2015-January 2016) under the guidance of Dr.Pralok Gupta and submitted a report that primarily focused on GATS (General Agreement of Trade in Services) and India's Schedule of Commitments.

Certifications

- Qualified **NET** Economics in 2015. The exam qualifies individual to apply for assistant professor in India.
- **ISI Delhi** - Certificate Course on Time Series and Forecasting from .
- **Government of India** - Certificate Course on Introduction to Emerging Technologies by Capacity Building Commission.
- **IATA** - Certificate Course on Overview of the Air Transportation System.
- **Google** - Data Analytics Professional Certificate ([Certificates](#) )
- **IBM** - Data Science Professional Certificate ([Certificates](#) , [Projects](#) )
- **IBM** - Data Science Fundamentals with Python and SQL Specialization ([Certificates](#) , [Projects](#) )
- **University of Michigan** - Applied Data Science with Python Specialization ([Certificates](#) , [Projects](#) )
- **Stanford University** - Machine Learning Specialization ([Certificates](#) , [Projects](#) )
- **DeepLearning.AI** - Deep Learning Specialization ([Certificates](#) , [Projects](#) )
- **Johns Hopkins University** - The Data Scientist's Toolbox ([Certificates](#) )

Data Proficiency

Data wrangling, Data visualization (Matplotlib, Seaborn, Plotly), SQL, Python (Pandas, NumPy, SciPy), Machine learning (Scikit-learn, PyTorch, TensorFlow, Keras), Neural networks, Text mining, Version control (Git, GitHub), STATA , Excel.

Academic Projects

Impact of MGNREGA on Consumption Expenditures of Rural Households – Master’s Thesis

PDF 

This paper studied the impact of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) on household consumption expenditure.

- Dataset used: NSS Consumption Rounds
- Software: STATA
- Key Econometric tool employed: Difference in Difference

Impact of MGNREGA on Schooling Enrolment

PDF 

This paper examined the impact of the Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) on school enrollment.

- Dataset used: NSS Employment and Unemployment Survey
- Software: STATA
- Key Econometric tool employed: Difference in Difference

Modelling Preferences over 3 year v/s 4 year programme

PDF 

Coauthored a term project focused on modelling and analyzing the factors that influence student preferences when comparing 3-year and 4-year undergraduate programs.

- Dataset used: Survey data collected from undergraduate students at Shiv Nadar University
- Software: SAS
- Key Econometric tool employed: Ordered Multiple Choice Model

Courseworks

Linear Algebra, Computational Economics, Econometrics, Applied Econometrics, Statistics, Time Series and Forecasting, Mathematical Methods for Economics, Macroeconomics, Microeconomics