Teja KONDURI

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SUMMARY

Empirical Economist and Data Scientist with 7+ years of experience applying econometric modeling, machine learning, and data analysis to solve complex business and policy problems. Proven track record of delivering data-driven insights, accurate forecasts, and optimizing strategies across sectors. Skilled in Python, R, SQL, Stata, Matlab, Tableau, and data visualization, with experience presenting actionable insights to senior leadership and academic audiences. **Seeking opportunities to utilize economics and data science expertise to drive impact** in the tech sector, government, consulting, or financial institutions.

SELECTED EXPERIENCE

Data Strategy Postdoctoral Fellow, *University of Notre Dame, Notre Dame, IN* Aug 2024 – Present

- Currently designing and developing Tableau dashboards to enhance data visualization and reporting capabilities for both the Graduate School and Division Student Affairs of the university.
- **Automated data collection processes**, streamlining the reporting pipeline for the Graduate School.
- **Leading efforts in external benchmarking**, collecting and analyzing data strategies from peer institutions to inform best practices for data-driven decision-making in Student Affairs.

Graduate Economics Researcher, *University of Notre Dame, Notre Dame, IN* Aug 2019 – Jun 2024

- **Increased forecast accuracy by 20%** for macroeconomic indicators such as income and employment, using advanced machine learning methodologies on the FRED-MD dataset with 60 years of historical data and 134 variables.
- **Pioneered the use of ensemble machine learning methods** (adaptive gradient boosting and PCA) to improve data dimension reduction, resulting in a **11%** enhancement in processing speed and model precision for real variables.
- **Developed econometric models** using local projections to assess the impact of oil supply shocks on U.S. monetary policy, finding that the Federal Reserve increases interest rates by **7.7 basis points** in response to a 10% increase in oil prices to manage inflationary pressures.

Economics Intern, *Amazon.com, Bellevue, WA* Jun – Oct 2023

- **Developed a Structural Vector Autoregression (SVAR) model** of the Amazon marketplace, effectively disentangling supply-driven and demand-driven shocks to assess their impacts across multiple product categories.
- **Evaluated the impact of supply chain improvements** by simulating a one-day reduction in delivery speed over a year, identifying a clear correlation between faster delivery and increased sales across various product categories.
- **Ranked product categories based on sales improvement** forecasts, creating visualizations to plot the highest to lowest expected sales growth, providing actionable insights for category-specific business decisions.
- **Automated data analysis pipelines**, optimizing workflows and reducing data retrieval time by collaborating with engineers and integrating custom SQL queries in Amazon Redshift.
- **Presented key findings** to senior leadership, illustrating how supply chain enhancements could drive sales growth, influencing future strategic initiatives to improve delivery speed and customer satisfaction.

Research Associate, *Indian Institute of Management, Bangalore* May 2016 – Jul 2019

- **Co-authored a research paper on caste proximity and M&A outcomes**, influencing corporate governance dialogs.
- **Built and managed a comprehensive database of over 10,000 Indian firms**, mapping directors' last names to caste groups using proprietary algorithms applied to large-scale matrimonial data. This database facilitated an econometric analysis of M&A likelihood based on cultural proximity.
- **Developed and applied the boardroom caste homophily index**, which successfully predicted M&A likelihood across industries, providing novel insights into the role of social networks in corporate decision-making.
- **Reduced data processing time by 80%** by designing and implementing an optimized R program, cutting the run time of a large-scale M&A analysis from 30 days to 6 hours, significantly improving research efficiency.
- **Presented research findings at academic conferences**, including the ACEGD 2018, effectively communicating the implications of caste-driven M&As to a diverse audience of economists and finance professionals.

EDUCATION

PhD in Economics, *University of Notre Dame, Notre Dame, IN* Jun 2024

- Dissertation on forecasting and the effects of oil price shocks using machine learning and econometric models.

MA in Economics, *University of Notre Dame, Notre Dame, IN* Jan 2023

MS in Quantitative Economics, *Indian Statistical Institute, Delhi* Jan 2018

BE (Honors) in Computer Science, *Birla Institute of Technology and Science – Pilani, Hyderabad* Jul 2014

HONORS AND AWARDS

- Graduate Fellowship, 2019-2024, *University of Notre Dame, Notre Dame, IN*
- Graduate Fellowship, 2015-2017, *Indian Statistical Institute, Delhi*

RELEVANT SKILLS

Data Analysis and Visualization: *R (Tidyverse, data.table, ggplot), Python (Pandas, Numpy), Tableau, SQL, Excel*
Machine Learning: *Decision Trees, Random Forests, SVM, AdaBoost, XGBoost, Gradient Boost, kNN, Time Series Forecasting*
Project Management: *Communication, Organization, Stakeholder Engagement*
Data Strategy: *Expertise in streamlining data collection processes and creating visual reports for strategic decision-making.*