Sreehari (Hari) Sreedhar
Student of Policy Analysis

📱 +61 450087293   spulickamadhom@gmail.com   🏠 Canberra, ACT

in/sreehari-sreedhar   github.com/orectique

Profile

I stand at the intersection of rigorous policy analysis and data science, employing intricate microsimulation models to explore variations human behavior in response to policy interventions. My academic pursuits have encompassed dissecting the distributional effects of Australian tax cuts and mapping the spatial scope of social unrest, revealing patterns and truths embedded within complex datasets. Through research work at Mandala Partners and QuantEcon, I've honed my analytical skills and cultivated a collaborative spirit. Now, with a proven track record of leading data analysis teams, I seek to apply my expertise to pressing policy challenges, leveraging data to inform actionable strategies.

Areas of Expertise

Agent-Based Modelling - Policy Analysis - Microsimulation - Negotiation and Mediation - Statistical Analysis and Modelling

Professional Experience

Research Intern, *(Mandala Partners)*   **Canberra, ACT** *09/2023 - 12/2023*
- Reviewed comparative policy research to study the impact of federalism across Australian states and Territories.
- Engineered estimates of indicators of quality of life, education, and healthcare through multifactor analyses and statistical modeling.
- Collaborated with partners, analysts, and engagement managers to streamline quantitative report generation.

Research Assistant, *(QuantEcon@ANU)*   **Canberra, ACT** *07/2023 - 12/2023*
- Gained hands-on experience in the use of high-performance computing and dynamic programming approaches to classical economics problems.
- Co-authored and reviewed material in the QuantEcon lecture series authored by Prof. Thomas Sargeant (NYU) and Prof. John Stachurski (ANU).
- Instructed a QuantEcon Lunch Workshop on the use of multidimensional weighting and constrained sampling in the context of spatial microsimulations of the Australian taxed population.

Lead Data Analyst, *(Amrita Vishwa Vidyapeetham)*   **Coimbatore, TN** *10/2021 - 05/2022*
- Analyzed sociological data from survey conducted as part of a joint project between the Dept. Of Food and Nutrition and Dept. of Science and Technology, Government of India.
- Developed analytical tool to summarize and analyze semi-structured geospatial data – designed to be intuitive for use by nontechnical social scientists.
- Trained field researchers in ethical data usage and the analysis of deidentified survey data.

Research Intern, *(Dr. Peter J. Kempthorne, MIT)*   **Remote** *04/2021 - 06/2021*
- Engaged in methodic analysis and aggregation of ACLED social unrest data to study spatial distributional variation of protest frequency.
- Introduced a new measure of unrest severity using measures of perceived violence and proposed a novel way to map and compare periods of social unrest using latent measures of severity and intensity.
- Joint paper accepted for presentation at Joint Statistical Meetings 2022, Washington D.C.

Education

Master of Intl. and Dev. Economics, *(Australian National University)*   **Canberra, ACT** *02/2024 - Present*
Relevant topics: Microeconomic policy - Game theory and competition - Static and dynamic optimization - Development policy

Bachelor of Applied Data Analytics, *(Australian National University)*   **Canberra, ACT** *02/2023 - 12/2023*
Relevant topics: Demographic cohort analysis - Regression modelling - Social network analysis - Data wrangling and mining
- Built microsimulation models to analyze spatial distribution of impacts of Stage-3 tax cuts across Australia.
- Classified and studied the behavior of suspected state-backed troll accounts on Reddit using state-of-the-art neural network classifiers and graph analysis.
- GPA: 5.875/7 – Semester 1 & 2

Data, Economics, and Development Policy - MicroMasters, *(MIT - JPAL)*   **Remote** *02/2022 - 08/2022*
Relevant topics: Microeconomics - Econometrics - Qualitative analysis - Survey design - Development policy - Research ethics
Integ. MSc. Data Science, *(Amrita Vishwa Vidyapeetham)*   **Coimbatore, TN** *008/2020 - 12/2022*
Relevant topics: Statistical modelling - Database management and design - Cryptography - Optimization - Real analysis - Linear algebra

- Transferred to ANU seeking a more policy focused program.
- GPA: 8.55/10 – Semester 1 - 5

Other Courses

- International Polictical Economy of Decarbonization - Harvard DCE

- Monetary Policy Analysis and Forecasting – International Monetary Fund (IMFx)

- Mediation and Conflict Management – Program on Negotiation, Harvard Law School

- Effective Leadership through Emotional Intelligence – University of Oxford (Online)

- MicroMasters in Entrepreneurship – Indian Institute of Management, Bangalore (IIMBx)

Skills

- **Languages/Frameworks:** Python, Julia, MATLAB, R, STATA, Power BI

- Simulations and Modelling

- Data Wrangling and Mining, Pipelining and Management, Visualization and Communication

- Neural Networks and Deep Learning

- Natural Language Processing

Languages

- **English** [Native]

- **French** [Basic] - Learning

- **Hindi** [Basic]