SRIKAR KATTA

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EDUCATION

Temple University – University Honors Program, Philadelphia PA
May 2022
BS in Math & Computer Science | BA in Economics | Minors in Statistics & Psychology **GPA: 3.98/4.00**
Selected courses: Econometrics I, II (Graduate), Machine Learning (Graduate), Data Mining (Graduate), Applied Statistics (Graduate), Probability Theory, Real Analysis, Data Structures and Algorithms

SKILLS

Python (pandas, numpy, scikit-learn) | R (tidyverse, Shiny) | Tableau | Data Studio | Java | SQL | Stata | LaTeX
Machine Learning | Statistics | Econometrics | Data Visualization | Data Wrangling/Cleaning | HR/People Analytics

RESEARCH EXPERIENCE

Research Assistant, Data Science Institute, Philadelphia PA
August 2020 – Current
- Develop textbook on probabilistic approaches to data science covering estimation strategies like the EM algorithm, MCMC, and models like state space and latent Dirichlet allocation with exercises in R
- Compare Bayesian ensemble methods to combine models for optimal link prediction in networks
- Web-scraped 600,000+ tweets in order to analyze Twitter social networks between tax firms and policy makers

Research Assistant, Neuroeconomics Lab, Philadelphia PA
September 2018 – August 2020
- Researched the psychology behind economic decision making under Dr. David V. Smith at Temple University
- Trained 6 research assistants to wrangle and visualize data in R (ggplot2) by creating and implementing 12 lesson plans
- Developed modified game of Blackjack in Python with graphical user interface to measure risk-taking behavior

Research Intern, Federal Reserve Bank of Philadelphia, Philadelphia PA
May 2019 – May 2020
- Researched local business outlook and inflation by surveying manufacturing business owners monthly
- Used regression techniques to compare business' and professional forecasters' inflation expectations
- Advised policy by surveying 8000+ local businesses on perspectives of economy and inflation levels
- Created surveys and analyzed and visualized data for 16 press releases; work cited by CNN, Reuters, and WSJ

WORK EXPERIENCE

People Data Science Intern, Dyson Inc, Chicago IL (remote)
June 2020 – August 2020
- Predicted COVID-19 cases using neural nets with 6.5% error rate resulting in policies to guide store reopenings
- Operationalized organizational chart development using R Shiny, saving $25,000+ of work annually
- Automated HRIS data audits using Python and developed Tableau dashboards, saving $350,000+ annually

Intern, Bureau of Labor Statistics, Philadelphia PA
January 2019 – May 2019
- Analyzed Bureau of Labor Statistics and Census Bureau datasets, including collection methods and usage
- Researched correlates of income differences between native and foreign-born populations in all American states

TEACHING EXPERIENCE

Teaching Assistant, Temple University – Elements of Data Science   August 2020 – December 2020
Teaching Assistant, Temple University – Introduction to Python   January 2020 – May 2020
Tutor, Mathematics Department – Calc I-III, Linear Algebra, Probability & Statistics   January 2020 – March 2020

ACADEMIC INTERESTS

Public policy: Labor economics, Behavioral economics, Game theory, Environmental policy
Statistics: Machine learning, Causal inference, Network analysis, Bayesian inference

* The Federal Reserve Bank of Philadelphia authors all Business Outlook Surveys – I was a contributor

AWARDS AND ACTIVITIES

Ambassador, Honors Admissions and Transition Team   August 2019 – Current

Volunteer, Temple Honors Appalachia   August 2018 – Current

Provost Scholarship, Temple University   August 2018 – Current

Dean's List, Temple University   August 2018 – Current

Liberal Arts Undergraduate Research Award, Temple University   August 2019 – January 2020

RESEARCH

PUBLICATION

Katta, S. 2019. Taking a Knee to Take a Stand: An Analysis on The Bhagavad Gita's Application to the Take a Knee Movement. Perceptions, 5(1). https://tujournals.temple.edu/index.php/perceptions/article/view/153.

WORK IN PROGRESS

Katta, S., Hackett, K., Giovannetti, T., Jarcho, J., Fareri, D. S., & Smith, D.V. (2020, May 11). Characterizing the Links between Sociodemographic Variables, Social Preferences, and Susceptibility to Financial Fraud in Middle to Late Adulthood. Retrieved from osf.io/v357h

POSTER PRESENTATIONS

Hackett K, **Katta S**, Jarcho JM, Giovannetti T, Fareri DS, Smith DV (October, 2020). Relationship between cognition, social support, and susceptibility to fraud among older adults before and during COVID-19. To be presented at International Neuropsychological Society 2021 Conference. [virtual meeting due to pandemic]

Katta S, Hackett K, Jarcho JM, Giovannetti T, Fareri DS, Smith DV (October, 2020). Financial Exploitation in Older Adults: Characterizing the Role of Sociodemographic Factors, Cognition, and Social Decision Making. Presented at the 17th meeting of the Society for Neuroeconomics. [virtual meeting due to pandemic]

Kelly V, Slipenchuk M, **Katta S**, Clithero JA, Smith DV (June 2019). The More the Merrier: Participants Value Having More Options to Choose From. Presented at 9th meeting of the Interdisciplinary Symposium on Decision Neuroscience. Durham, NC, USA.

Henninger NM, **Katta S**, Kelly V, Hackett K, Reeck C, Giovannetti T, Fareri DS, Smith DV (June 2019). Aging is associated with reductions in functional connectivity in social brain systems. Presented at 9th meeting of the Interdisciplinary Symposium on Decision Neuroscience. Durham, NC, USA.

Smith DV, Henninger NM, Hackett K, Kelly V, DeSalme D, Muzekari B, **Katta S**, Giovannetti T, Fareri DS (June 2019). Fairness is Associated with Increased Connectivity between the Executive Control. Presented at 25th meeting of the Organization for Human Brain Mapping. Rome, Italy.

Fareri DS, Kelly V, Henninger NM, Hackett K, DeSalme D, Muzekari B, **Katta S**, Reeck C, Giovannetti T, Smith DV (May 2019). The influence of close relationships on shared reward processing in older and younger adults. Presented at the 12th meeting of the Social & Affective Neuroscience Society. Miami, FL, USA.

Henninger NM, Kelly V, Hackett K, Fareri DS, **Katta S**, Smith DV (October 2019). Age-related reductions in functional connectivity in social brain systems during an economic trust task. Presented at the 50th meeting of the Society for Neuroscience. Chicago, IL, USA.

ORAL PRESENTATION

Katta S (April 2019). In the Eyes of the Beholder: An Analysis on the Similarities Between John Locke's *Second Treatist on Civil Government* and Thomas Hobbes' *Leviathan*. Speech presented at Temple University's Symposium for Undergraduate Research and Creativity. Philadelphia, PA, USA.