Gaurav Sett

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Education

MS in Computer Science — Georgia Institute of Technology *(Atlanta, GA)*　　*2023-01 to 2023-08*
- 4.0 GPA; Specialization in Machine Learning

BS in Computer Science — Georgia Institute of Technology *(Atlanta, GA)*　　*2019-08 to 2022-12*
- 3.9 GPA, Honors Program; Specializations in Artificial Intelligence and Human-Computer Interaction

Skills

Data Science | Python | R | SQL | PyTorch | Tensorflow | SciKit-Learn | Pandas | Numpy | Matplotlib
Software Engineering | Java | C | JavaScript | HTML/CSS | Git | APIs | AWS | React | Django | Agile

Experience

Graduate Teaching Assistant — Georgia Tech College of Computing *(Atlanta, GA)*　　*2023-01 to Present*
- Leading discussions and grading essays for section of 30 students in CS 3790: Introduction to Cognitive Science

Data Science Intern — Washington Post *(Washington, DC)*　　*2022-05 to 2022-08*
- Categorized article topics in breaking news stream with LSTM and BERT models using PyTorch
- Created API to handle continuous collection, processing, and storage of articles using AWS ECS, Lambda, and S3
- Visualized breaking news topics and API performance on dashboard for journalists using Datadog

Economics Research Intern — Federal Reserve Board *(Washington, DC)*　　*2021-05 to 2021-08*
- Developed text analysis tool regularly used in policy meetings to analyze corporate earnings calls using SpaCy
- Automated collection, processing, and storage of 200K documents; used parallelization to improve speed 8x with Dask
- Presented to economists on NLP techniques such as word vectors and LDA topic modeling with interactive Django app

Research Intern — Georgia Tech Research Institute *(Atlanta, GA)*　　*2020-05 to 2020-12*
- Created classification models identifying conspiratorial anti-vax Reddit comments with 80% accuracy using SciKit-Learn
- Analyzed the partisan differences in tweets about COVID-19 topics from members of Congress using SpaCy
- Built GUI application enabling social scientists to collect and analyze Twitter API data using PyQT5

Activities

Cofounder & Director — AI Safety Initiative at Georgia Tech *(Atlanta, GA)*　　*2022-08 to Present*
- Managing weekly events, seminar programs, machine learning bootcamp, and campus engagement for over 50 students
- Directing a supervised research program in collaboration with EleutherAI to enable students to work on alignment

Cofounder & Officer — Effective Altruism at Georgia Tech *(Atlanta, GA)*　　*2021-08 to Present*
- Managed and led seminar programs on moral philosophy, global challenges, and philanthropy for over 120 students
- Secured grant funding, organized events, and led outreach to become one of the world's largest university chapters

Projects

Master's Thesis — Georgia Tech College of Computing *(Atlanta, GA)*　　*2023-01 to Present*
- Modeling human discursive values through measures of language adoption in philosophy papers over time
- Training a GPT-based reward model on paper language adoption and fine-tuning generative model with RLHF

Undergraduate Research — Georgia Tech College of Computing *(Atlanta, GA)*　　*2019-08 to 2022-12*
- Language Model Analysis: Conducted experiment to measure GPT-3's ability to rationalize moral judgements
- News Classification: Measured news story salience based on topic similarity across outlets using fine-tuned BERT
- Gentrification Forecasting: Built transformer model forecasting of Atlanta gentrification with tax data using PyTorch
- Employment Review: Wrote literature review on the likely effects of AI on wages and employment over this century
- Social Media Review: Led literature review on how social media affects misinformation, polarization, and radicalization