

# Gaurav Sett

Contact | [mail@gauravsett.com](mailto:mail@gauravsett.com) | [linkedin.com/in/gauravsett](https://www.linkedin.com/in/gauravsett) | [gauravsett.com](https://gauravsett.com)

## Education

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**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

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**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

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**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

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**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

**Cofounder & Director — AI Safety Initiative at Georgia Tech** (*Atlanta, GA*) 2022-08 to Present

- Managing weekly events, seminar programs, machine learning bootcamp, and research fellowship for 40 students
- Working with students and researchers to develop paradigm for the emerging research field of AI safety

**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 over 120 students
- Secured grant funding, organized events, and led outreach to become one of the world's largest university chapters

## Projects

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**Master's Thesis — Georgia Tech College of Computing** (*Atlanta, GA*) 2023-01 to Present

- Conducting literature review of linguistics work in pragmatics on the emergence of rational cooperative dialogue
- Aiming to identify and implement strategies for training aligned LLM dialogue models

**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