

# Gaurav Sett

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## Education

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**MS in Computer Science — Georgia Institute of Technology** (*Atlanta, GA*) 2023-01 to 2023-08

- 4.0 GPA; Machine Learning specialization

**BS in Computer Science — Georgia Institute of Technology** (*Atlanta, GA*) 2019-08 to 2022-12

- 3.9 GPA, Honors Program; Artificial Intelligence and Human-Computer Interaction threads

## Skills

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**Machine Learning** | Python | R | SQL | PyTorch | TensorFlow | HuggingFace | SciKit-Learn | Pandas | Numpy | Matplotlib

**Software Engineering** | Java | C | JavaScript | HTML/CSS | Git | APIs | AWS | React | Django | Agile

## Experience

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

- Managing events, seminar programs, machine learning bootcamp, and campus outreach for group of 50 students
- Leading a research program with three ongoing AI alignment projects collaborating with EleutherAI

**Graduate Teaching Assistant — Georgia Tech College of Computing** (*Atlanta, GA*) 2023-01 to 2023-08

- Planned instruction, lead discussions, and graded essays for spring and summer courses in 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

## Projects

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**Graduate Research — Georgia Tech College of Computing** (*Atlanta, GA*) 2023-01 to Present

- Measuring ability for value learning techniques to capture the heterogeneity of human preferences
- Comparing human survey responses to LLM outputs before and after reinforcement learning fine-tuning

**Alignment Research — EleutherAI** (*Remote*) 2023-05 to Present

- Language Model as Markov Chains: Predicting distributional drift in LLMs with Markov chains over context window
- Unpaired Image Generation: Producing images from text with minimal paired training data using shared latent space

**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
- Portfolio Clustering: Analyzed investment portfolios to identify clusters of asset price time-series using K-means