

# 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

- Founded group hosting events, seminars, bootcamps, and research projects in AI alignment and governance
- Managing programs and funding; providing opportunities for dozens of students and leading efforts of several organizers

**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

**Undergraduate 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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**Program Management — Supervised Program for Alignment Research** (*Remote*) 2023-07 to Present

- Launched program facilitating AI safety projects for 15 advisors and 80 students at 12 universities
- Recruiting participants, managing applications, and organizing 18 projects in alignment, engineering, and policy

**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

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

- Developing benchmark to measure ability for fine-tuning methods to learn human values described in text data
- Collecting philosophy papers and survey of philosopher views, measuring alignment between model and philosophers

**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
- 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