

# Parv Mahajan

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AI Safety researcher with extensive research program management experience. Regular partner with government entities and university defense laboratories. Interested in scaleable oversight, CBRN evaluations, and fieldbuilding strategies.

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## EDUCATION

Georgia Institute of Technology - B.S. in Computer Science, Minor in German, **GPA: 3.85** August 2024 - December 2026

## WORK EXPERIENCE

**Astra Fellow (Fieldbuilding), Constellation Research Center** January 2026 - Present

**Counterproliferation and Counter-WMD Intern, Georgia Tech Research Institute** September 2024 - December 2025

- Managed experiment portfolio of \$63,000 for affecting and detecting potential bio-cyber attack vectors, enhancing security frameworks for 5000+ bioinformatics projects globally through systematic hypothesis testing and validation
- Formulated and red-teamed catastrophic nuclear risk AI system evaluation methodology across 168 infohazard scenarios in coordination with SMEs, broadening defended attack space and reducing evaluation timelines by 31%
- Accelerated project timeline by 44% through contributions in strategic project planning in a fast-paced, detail-oriented research environment by effectively communicating complex findings to sponsors and lab leadership

**Artificial Intelligence and Machine Learning Intern, Honeywell** May 2025 - August 2025

- Designed and conducted end-to-end ML experimentation including data preprocessing, model training, hyperparameter tuning, and performance evaluation on 7 industrial IoT datasets
- Used distillation and interpretability techniques from modern literature to optimize LLM pipelines for real-time inference on edge devices, reducing compute overhead by 28% while maintaining model accuracy

**Artificial Intelligence and Computational Biology Researcher** August 2023 - May 2024

- Created novel AI system to synthetically augment biopsy slide segmentation, improving on current models by 3-10%
- Presented work at international biomedical conference attended by over 250 industry and academic researchers
- Communicated research with military officials and area experts at 3 state-wide symposiums and competitions

**Director of Data Science, GSMST Counseling Department** August 2022 - September 2023

- Empowered 1,254 students by building an individualized grade predictor powered by tree-based gradient boosting
- Led independent research analyzing 54 months of unconventional textual and numerical academic data using time series analysis and presented reports to varied stakeholders

## TECHNICAL SKILLS

**Computing Languages:** Proficient in **Java, Python, Julia, MATLAB/Octave, Bash**; familiar with **C++, Perl**

**Technologies:** PyTorch, TensorFlow, LLM fine-tuning, Basic mechanistic interpretability, ML experimental design

## LEADERSHIP AND RESEARCH

**Collaborative Initiatives Lead, AI Safety Initiative** January 2025 - Present

- Led cross-disciplinary collaboration between 11+ research partners, driving the development of AI governance frameworks submitted to the National Science Foundation and Office of Science and Technology Policy.
- Spearheaded the organization of regional AI safety workshops and symposia, attracting over 110 participants from academia, industry, and government sectors, to share cutting-edge research and foster partnerships.
- Operated \$30,000 research program funding 6 concurrent projects and 26 students, including international collaborations with the Liberian Ministry of Health for a comprehensive AI biosecurity regulatory framework.

[Language Models for Open-ended Wargames](#) EMNLP Wordplay Workshop

[Classification on Latent Feature Activation for Detecting Adversarial Prompt Vulnerabilities](#) Apart Studio

**Sandbagging Model Organisms for Evaluations of Model-diffing Methods** Forthcoming

## ADDITIONAL SKILLS AND INTERESTS

**Languages:** Fluent in **Hindi and German**

**Fine Arts:** Award-winning classical composer; Tenor Saxophonist (7 years)

**Interests:** Reading; Medium-distance running; Badminton