

Parv Mahajan

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A driven undergraduate researcher with extensive machine learning and data-driven experience. Looking to expand analysis expertise by joining a cutting-edge research environment as a summer 2025 intern.

EDUCATION

Bachelors of Science/Masters of Science in Computer Science, GPA: 4.00 *May 2028*

Summa Cum Laude Gwinnett School of Mathematics Science and Technology, GPA: 4.48/4.00 *May 2024*

WORK EXPERIENCE

Intern, Georgia Tech Research Institute Advanced Concepts Laboratory *September 2024 - Present*

- Translated research findings into actionable insights by coding algorithms that simulate potential DNA-based cyber threats, enhancing the security framework of bioinformatics software
- Worked in a fast-paced, detail-oriented research environment, effectively communicating complex findings to senior team members and contributing to strategic decision-making

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

- Created and evaluated deep learning system with Python in Jupyter notebooks for synthetic biopsy slides, improving on current models by 3-10%
- Presented work at international industry conference, earning an oral presentation award
- Communicated research with industry leaders, military officials, and area experts at multiple state-wide symposiums and competitions

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

- Empowered 1,254 students using Python to build gradient boosting based grade prediction system
- Led independent research analyzing 54 months of unconventional textual and numerical academic data using time series analysis and presented reports to varied stakeholders
- Secured over 2,500 students' educational records and ensured data privacy in long-term collaborative project with administrators

TECHNICAL SKILLS

Computing Languages: Proficient in **Java, Python, Julia, MATLAB/Octave, Javascript, R**; familiar with **HTML, CSS**

Technologies: System optimization algorithms, Quantitative data analysis, Machine learning, Jupyter, TensorFlow, LaTeX

LEADERSHIP AND COMMUNITY ENGAGEMENT

President, CS Club *August 2021 - May 2024*

- Organized seminar on AI ethics in healthcare and robotics attended by 70+ students and faculty
- Led 4 competitive cybersecurity teams specializing in endpoint hardening for Linux and Windows to state championships
- Coordinated logistics for over 167 members with meetings 4x a week
- Consulted with industry professionals for speaker panels and business sponsorship events

Collegiate Head, Georgia High School Voter Project *March 2024 - Present*

- Registered average of 109 high school seniors per voter drive
- Coordinated efforts with local election offices to provide ballot resources

Co-Founder, Amplify Gwinnett *August 2022 - May 2024*

- Supervised cross-county speaking competition with 127 total applicants
- Collaborated with county administrators to procure media attention and funding

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