

Garvikaa Aggarwal

(678) 749-2740 | g13@gatech.edu
<https://www.linkedin.com/in/garvikaa/>

EDUCATION

Georgia Institute of Technology (GT) , Atlanta, GA <i>Bachelor of Science in Aerospace Engineering</i>	May 2028
Aditya Birla World Academy , Mumbai, India <i>IGCSE 9A8s, Highest in International Mathematics</i> <i>IBDP 40/45, General Proficiency award, Subject highest in Economics</i> Standardized Testing: IELTS 8.5/9 SAT 1510	May 2024

PROJECTS

Sustainabin, Makers Asylum Innovation School Residency Program , Goa, India	2022– 2023
<ul style="list-style-type: none">Created a vortex mechanism using a magnetic net to collect rocket debris from nearby launch sitesLed and collaborated with team of 3 and obtained OSHA certification and was awarded the Crest Silver Award 2023.	
Inspirit AI, AI Scholars Program , Remote	June 2023
<ul style="list-style-type: none">Leveraged machine learning and tested different classification models parallel with data augmentation techniques to identify exoplanets using data from NASA's Kepler Telescope. Worked with Pandas library, Tensor Flow, Matlab matrices.Primarily developed the convolutional neural networks model to obtain 98.76% accuracy on test data.	

WORK EXPERIENCE

Yellow Jackets Space Program – Structures Group	Spring 2025
DBS – Advanced Group Representing Georgia Tech at SAE Aero Design	Spring 2025
Riverwatch Citizen Science Project , Research Intern, Remote	Summer 2023
<ul style="list-style-type: none">Led and collaborated with a cross-functional team at MIT Media Lab to develop India's first water quality mapping system.Utilized Python for data analysis and applied data science techniques for detailed interpretation (correlation matrices etc.)Applied machine learning, computational data analysis and SONAR to determine ammonia as the critical parameter.	
Heligo Charters Pvt Ltd , <i>Student Intern, Mumbai, On-site</i>	June 2023 – Aug 2023
<ul style="list-style-type: none">Improved engine efficiency and eliminated stalling in the base maintenance and avionics department. Hands-on experience with jet engine mechanics and adeptly troubleshooting issues.Repaired mechanical systems, involved in changing the primary rotor of a fleet, only intern with direct access to fleets.	
Prisma AI , <i>Research Intern, Mumbai/Singapore, hybrid</i>	May 2023 – July 2023
<ul style="list-style-type: none">Integrated decision-making systems with convolutional neural networks and classification models to detect stress levels and emotional parameters from a person's handwriting in the graphology team.	

LEADERSHIP

President, STEM Club in ABWA	2022– 2024
<ul style="list-style-type: none">Founded the school's first STEM newsletter and introduced bi-monthly guest speakers to mentor students at the club.Organized a forum to present student-led research projects and papers with panel discussion and guidanceArranged for a former NASA aerospace engineer and IIT Bombay Researcher Rachel Trehan as a guest speaker	
House Captain, Student Council	2021–2022

SKILLS

Technical: MATLAB (intermediate), Python (basic), Arduino (Intermediate), CAD(Intermediate), Soldering, PCB Design (intermediate), Robotics, Power tools and Hand tools, prototyping
Languages: English (primary language), Spanish(basic), Hindi(native)
Concepts: Mechanics, Electronics, Calculus, Statistics, Chemistry, Energy Cells, Materials Science & Semiconductors, Astrophysics

HONORS & INTERESTS

International Awards: SIN Physics Exam Bronze, Canadian Euclid Math Competition top 25th, Thailand Mathematics Olympiad Bronze, Singapore and Asian School Math Olympiad Bronze, Crest Silver Award for STEM prototyping, Nationals in Kathak
Other Interests: Model UN, Math Tutoring, Chess, Volunteering Work