

# Aryan Mittal

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## EDUCATION

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### Georgia Institute of Technology

Atlanta, GA

*B.S. Computer Science, B.S. Mathematics*

*August 2022 – May 2026*

- *Concentrations:* Intelligence and Information Internetworks
- *Relevant Courses:* Graph Theory, Multivariable Calculus, Probability & Statistics, Object-Oriented Programming

### Community Christian School

Stockbridge, GA

*High School Diploma, GPA: 4.0/4.0, Valedictorian*

*August 2018 – May 2022*

- *Activities:* Chess Team #1 Board, Chess Instructor, Robotics Team Captain, Quiz Bowl Captain, NHS President

## EXPERIENCE

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### Graph Theory Researcher

October 2021 – Present

*Clayton State University Department of Mathematics*

*Morrow, GA*

- Invented “The Cordiality Game” (original graph-theoretic game) and studied optimal play strategies
- Implemented best-play algorithm in C and proved sharp upper bound theorem for game score on paths
- Investigating the game’s computational complexity and co-authoring final paper

### Assistant Football Coach (Statistician/Analyst)

June 2019 – November 2021

*Community Knights Varsity Football Team*

*Stockbridge, GA*

- Analyzed game film and compiled detailed opponent tendency reports using Python, Microsoft Excel, and Hudl
- Developed comprehensive decision trees using Scikit-learn to model opponent offensive play-calling
- Reduced weekly defensive planning time by over 50%
- Awarded state championship ring (2019) and 2 varsity letters (2019 and 2021)

### GHP Software Engineer

June 2021 – July 2021

*Georgia Governor’s Honors Program (GHP)*

*Berry College, Rome, GA*

- One of 13 Georgia students chosen to receive fully-funded educational experience in Software Engineering
- Developed remote-controlled (RC) model M4 Sherman tank with 2 other students
- Programmed RC-to-tank wireless communication, tank motion software, and live camera feed web server
- Presented project to 650+ students and faculty at GHP 58 Engineering Expo

## PROJECTS

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### Home Rental Price Prediction | [github.com/thearyanmittal/atl-home-rentals](https://github.com/thearyanmittal/atl-home-rentals)

July 2022 – Present

- Scraped over 30,000 Atlanta region home rental listings from Georgia MLS site
- Cleaned data and visualized feature correlation with price using Python, Pandas, Numpy, Matplotlib, Seaborn
- Evaluating performance of various regression models and ensemble methods on dataset with Scikit-learn

### Balanced News Aggregator | [balancednews.us](https://balancednews.us)

October 2020 – February 2021

- Created Django web application to combat political confirmation bias that presents news articles from both sides of the political spectrum to users
- Scraped data from 10 different news sites using BeautifulSoup and Selenium
- Code at [github.com/thearyanmittal/news-aggregator](https://github.com/thearyanmittal/news-aggregator)

### Facial Recognition & Mask Detection | [github.com/thearyanmittal/facial-recognition](https://github.com/thearyanmittal/facial-recognition)

June 2020 – August 2020

- Implemented system using TensorFlow and OpenCV that identifies and labels faces in live camera feed and detects whether face mask is being worn properly

## TECHNICAL SKILLS

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**Languages:** Python, MATLAB, HTML/CSS, L<sup>A</sup>T<sub>E</sub>X, Java, C

**Libraries/Frameworks:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, OpenCV, Seaborn, Pyplot, Django, BeautifulSoup, Selenium

**Developer Tools:** VS Code, Google Colab, Jupyter Notebook, Git/GitHub, Microsoft Excel, Linux/Unix, Windows