

Aryan Mittal

678-650-7251 | thearyanmittal@gmail.com | thearyanmittal.com | github.com/thearyanmittal | Atlanta, GA

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science, Double Major in Computer Science and Mathematics, GPA: 4.0

Expected May 2026

- *Concentrations:* Intelligence and Information Internetworks
- *Relevant Coursework:* Data Structures & Algorithms, Probability & Statistics, Graph Theory, Advanced Linear Algebra, Multivariable Calculus, Combinatorics, Object-Oriented Programming

EXPERIENCE

Data Scientist

January 2023 – Present

Big Data Big Impact Club at Georgia Tech

Atlanta, GA

- Constructing and delivering predictive model for flight delays with team of 20+ developers
- Statistically modeling variables and developing delay estimation models using Keras and PyTorch

Sports Analytics Researcher

January 2023 – Present

Joel Sokol Lab, School of Industrial and Systems Engineering, Georgia Tech

Atlanta, GA

- Applying logistic regression/Markov chain model to predict NFL playoff outcomes
- Analyzing play-by-play data to compute original “game control” metric for measuring team performance

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 and proved sharp upper bound theorem for game score on paths
- Investigating game score on general graphs and co-authoring final paper

Assistant Football Coach (Statistician/Analyst)

June 2019 – November 2021

Community Knights Varsity Football Team

Stockbridge, GA

- Compiled detailed opponent tendency reports from game film using Python, Microsoft Excel, and Hudl
- Modeled opponent offensive play-calling with decision trees using Scikit-learn
- Reduced weekly defensive planning time by over 50%

PROJECTS

Formulytics | devpost.com/software/formulytics

February 2023

- Led team of 3 in the development of website for live tracking of Formula 1 racers
- Invented neural-network-based method of estimating in-race win probabilities using only lap times
- Winner of “Best Sports Project” award at Hacklytics 2023

Home Rental Price Prediction | github.com/thearyanmittal/atl-home-rentals

July 2022 – September 2022

- Scraped over 30,000 Atlanta region home rental listings from Georgia MLS site
- Cleaned, feature engineered, visualized correlation, and factor analyzed data using Pandas, Numpy, Matplotlib
- Fit and selected regression models with Scikit-learn to predict prices within \$600

Balanced News Aggregator | github.com/thearyanmittal/news-aggregator

October 2020 – February 2021

- Created Django web application that presents news articles from both sides of the political spectrum to users
- Scraped data from 10 different news sites using BeautifulSoup and Selenium
- Implemented fully-functional user authentication system with password reset option

Remote-Controlled Tank | github.com/thearyanmittal/the-tank

June 2021 – July 2021

- 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 Governor’s Honors Program Engineering Expo

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, L^AT_EX

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

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