Aakash Suryavanshi

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science / GPA: 4.00

August 2025 - May 2027

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science / GPA: 3.52

January 2022 - May 2025

TECHNICAL SKILLS

Languages: Python, Java, C++, SQL, JavaScript, HTML/CSS, Swift, R

Data & Analytics: Pandas, NumPy, scikit-learn, PyTorch, Matplotlib, Tableau, Power BI, Excel

Databases & Tools: MySQL, SQLite, Git, Docker, AWS, VS Code, PySpark

Machine Learning: Regression, Classification, NLP, Computer Vision, A/B Testing, Time Series

EXPERIENCE

Research - Machine Learning | Georgia Institute of Technology, Atlanta, GA January 2024 - August 2025

- Built a PyTorch CNN for aerial fire detection, enabling onboard alerts at 100 FPS with 95% precision
- Programmed drone navigation logic to convert detections into GPS waypoints and autonomously fly toward fires
- Implemented OpenCV edge/contour avoidance to steer around terrain and obstacles with 0.5s retargeting
- Created a data/telemetry pipeline to log images, GPS, and decisions for reproducible testing

PROJECTS

Capital One Finance Analysis | SQL, Tableau, Excel, Python, Data Analyst

June 2025 – July 2025

- Parsed 4 months of Capital One PDFs in Python, extracting date/item/amount into an analysis ready table
- Normalized and categorized transactions with Excel lookups, fixing vendor variants and duplicates
- Built a Tableau spend dashboard that flagged discretionary spikes and helped cut monthly spending by 20%

Stock Market Timing Analysis | SQL, Tableau, Data Analyst

June 2025 - July 2025

- Loaded daily S&P 500 prices (1993–2025) into SQL and built rolling returns, enabling cohort timing tests
- Simulated buys on all time high vs other days with SQL cohorts, compounding to 2025 to isolate timing effects
- Visualized results in Tableau, showing minimal long run differences and reinforcing buy and hold strategy

- Built Python ETL to join 5 sources into 500k+ rows, standardizing fields for consistent, repeatable use
- Modeled foods in SQL with macro classes and per calorie scores to enable fast meal comparisons
- Published Tableau views to assemble macro efficient meals, cutting planning time and clarifying trade offs

NYC Housing Decision Dashboard | Python, Pandas, Tableau, Data Analyst

June 2025 – August 2025

- Integrated 1M+ NYC records in Tableau to build a unified model, enabling borough level comparisons
- Analyzed 2025 crime rates and median rent trends since 2010 to reveal borough cost safety trade offs
- Mapped venue, park, and restaurant density to guide borough selection and narrow ideal neighborhoods

Movie Recommendation System | Python, PyTorch, Pandas, Machine Learning Januar

January 2025 – May 2025

- Prepared 100,836 ratings and 9,742 movies with reproducible Python splits, enabling fair evaluation
- Benchmarked MF, KNN, and autoencoder+MLP in PyTorch, achieving 0.814 RMSE and 0.617 MAE on test
- Built an inference pipeline that ingests a user's rated watchlist and returns ranked top N recommendations

Sports NLP: Player-Style Postgame Answer Generation | Python, NLP

January 2025 – May 2025

- Curated 1,000+ answers across 119 games with 10 stat features, enabling supervised style conditioning
- Trained a PyTorch generator by fusing box-score stats with transcript embeddings, selecting best by validation loss
- Evaluated on a held-out set with **BLEU-4** of 0.28, yielding coherent, NBA athlete-style responses

LEADERSHIP

Team Manager iOS Club | Hackathon Winner

January 2024 – May 2024

- Built a social wellness iOS app with journals, mood tracking, posts, and streaks, enabling daily engagement
- Led 28 person team via weekly sprints and demos to ship 48 Swift files and 29 SwiftUI views into stable app
- Presented a live demo to judges at GT's hackathon, winning 1st place for innovation, UX, and execution