

Aakash Suryavanshi

404-271-3302 | aakashsuryaa02@gmail.com | linkedin.com/in/aakashsuryavanshi02 | aakash-suryavanshi2.github.io

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Atlanta, GA

August 2025 – May 2027

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, GA

January 2022 – May 2025

TECHNICAL SKILLS

Programming & Visualization: Python, PySpark, SQL, Tableau, Excel, Power BI

Analytics & ML: Pandas, NumPy, scikit-learn; regression, classification, A/B testing, time series

Data & Platforms: ETL (Python), MySQL, PostgreSQL, SQLite; Git, Docker, AWS, VS Code

EXPERIENCE

Research - Machine Learning | Georgia Institute of Technology, Atlanta, GA

January 2024 – June 2025

- Built real time pipelines on **10,000 per minute** telemetry to accelerate analyses and data driven flight decisions
- Cleaned and modeled sensor data in **Python (Pandas, PyTorch, OpenCV)** to reach **92%** detection accuracy
- Partnered across teams to cut false positives **35%** and improve route efficiency **28%**, presenting findings

PROJECTS

Capital One Finance Analysis | SQL, Tableau, Excel

June 2025 – July 2025

- Designed **ETL** for 4 months of transactions, cutting manual prep **40%** and standardizing inputs
- Wrote advanced **SQL** to surface spend drivers and optimization opportunities for budgeting
- Built **Tableau** dashboards that improved budgeting accuracy **15%** and lowered discretionary spend **20%**

Stock Market Timing Analysis | SQL, Excel, Tableau

June 2025 – July 2025

- Automated **SQL** extraction and validation to reduce data pull time **30%** for faster analysis cycles
- Analyzed 22 years of **S&P 500** history to identify entry windows with **15%** higher ROI
- Delivered **dashboards** that supported clear, time boxed what if evaluations for strategy choice

Nutritional Data Analysis Dashboard | Python ETL, SQL, Tableau

June 2025 – July 2025

- Integrated 5 sources (**8k+** foods) via **Python ETL** to reduce data prep time **60%** and improve quality
- Built **SQL** scoring to compare items on macros and nutrients for quick tradeoff analysis
- Published **Tableau** views that raised user engagement by **25%** with clear filters and tooltips

NYC Housing Decision Dashboard | Python, Pandas, Tableau

June 2025 – July 2025

- Consolidated **500k+** records from 5 datasets using automated cleaning and joins
- Created scoring models that revealed **40%** rent variance and clarified top neighborhoods
- Shipped interactive **dashboards** that cut decision time by **60%** with guided drill downs

Movie Recommendation System | Python, PyTorch, Pandas

January 2025 – May 2025

- Prepared **100,000+** MovieLens ratings in **Pandas** to enable fair, comparable benchmarking
- Hit **0.89 RMSE** (**12%** gain) by testing MF vs. **PyTorch** models, informing algorithm choice
- Managed end to end project from requirements gathering to stakeholder deployment

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

January 2025 – May 2025

- Built **NLP** model to generate NBA player-style interview responses using **1,190** training samples
- Used unsupervised learning (**k-means, PCA**) identifying communication patterns and performance correlations
- Built production pipeline with **50ms** latency enabling real time analysis

LEADERSHIP

Team Manager iOS Club | Hackathon Winner

January 2024 – June 2025

- Led a small team to deliver a data driven iOS app end to end
- Presented proposals and progress updates to the club, incorporating feedback into the roadmap
- Ran concise demos at each checkpoint to validate progress and adjust priorities