

Aman Patel

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Master of Science in Analytics, Computational Data Analytics Track

Aug 2025 – Aug 2026

- Coursework: Machine Learning, Computational Data Analysis, Mathematical Foundations of Data Science, Database Systems, Data Structures and Algorithms, Data and Visual Analytics, Probability and Statistical Theory

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

Bachelor of Science in Mathematics, Minor in Computing & Intelligence

Aug 2022- May 2025

- GPA: 3.96

EXPERIENCE

Georgia Tech Financial Services Innovation Lab

Atlanta, GA

Research Assistant

Jan 2025 – Present

- Engineering a regex-based package to parse key sections from over 1,000 S-1 IPO filings
- Analyzing S-1 filings with Natural Language Processing (NLP) techniques such as readability scores and sentiment analysis to explore links between disclosure quality and Initial Public Offering (IPO) performance

BlueConduit

Ann Arbor, MI (Remote)

Data Science Intern

Aug 2024 – Aug 2025

- Devised LLM-based automated web scraping tool to collect lead intelligence on 200+ customers
- Created LLM internal tools with LangChain to automate report writing and data manipulation, slashing customer data ingestion times by over 20%
- Refactored Databricks model deployment pipeline with drift monitoring, boosting robustness to incoming data
- Spearheaded usage of neural networks to predict survival times of water mains before breaking

State Farm

Bloomington, IL

Data Analytics Intern

May 2024 – Aug 2024

- Built a Retrieval Augmentation Generation (RAG) pipeline that functions as a Q&A engine using LlamaIndex, saving analysts over 50 hours reading insurance rate filings
- Implemented SQL queries to extract data from enterprise warehouses to support predictive modeling of claim payouts
- Designed a Power BI dashboard for executives to view state-level policy changes and impact on quote conversion rates

Tremau

Paris, France (Remote)

Machine Learning Intern

Jan 2024 – May 2024

- Developed a functional recommender system for content moderators by designing a semantic search pipeline using OpenAI embeddings and a Pinecone vector database
- Trained neural networks and gradient boosting models to classify policy violations with accuracies of 75%+

Real-Time Systems Group, UNC Chapel Hill

Chapel Hill, NC

Research Assistant

Jun 2023 – Sep 2023

- Integrated Keras Long Short-Term Memory (LSTM) driving behavior prediction models alongside other strategies into a 4-month EV battery simulation, improving lifespan by 2% (30 days)

SKILLS

Programming: Python, R, SQL, Java

Data Analysis: NumPy, pandas, Spark, dplyr

Visualization: PowerBI, Tableau, Matplotlib, seaborn, ggplot2

Machine Learning: Scikit-learn, XGBoost, TensorFlow/Keras, PyTorch, MLflow

GenAI Frameworks: Langchain, LlamaIndex

Cloud: Databricks, AWS