

# Aman Patel

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## EDUCATION

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### GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

#### Master of Science in Analytics, Computational Data Analytics Track

Aug 2025 – May 2026

- Coursework: Machine Learning Theory, Data and Visual Analytics, Database Systems, Data Structures and Algorithms
- Probability and Statistical Theory, Machine Learning for Graphs, Efficient Machine Learning

### GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, GA

#### Bachelor of Science in Mathematics, Minor in Computing & Intelligence

Aug 2022 – May 2025

- GPA: 3.96

## EXPERIENCE

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### Georgia Tech Financial Services Innovation Lab

Atlanta, GA

#### Research Assistant

Jan 2025 – Present

- Engineer regex-based package to parse key sections from over 1,000 S-1 Initial Public Offering (IPO) filings
- Leverage Natural Language Processing techniques to quantify disclosure quality in S-1 filings and link with IPO performance, uncovering insights to inform investment strategies

### 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, ensuring model quality
- 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 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 Power BI tool for executives to understand business policies by state and impact on quote conversion rates

### Tremau

Paris, France (Remote)

#### Machine Learning Intern

Jan 2024 – May 2024

- Developed 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

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**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