

SUMMARY

Data Scientist with over 3 years of hands-on experience delivering 30+ data products across finance, operations and supply chain in healthcare and edtech. Skilled in Python, SQL, and AWS, with expertise in statistical predictive modeling and GenAI. Passionate about applied ML and making analytics actionable, interpretable, and aligned with real-world decision-making.

EXPERIENCE

**AI Researcher**  
LMI Inc. and UVA School of Data Science

Charlottesville, VA (Remote)  
Nov 2024 – Present

- Applied research on multimodal and hybrid Retrieval-Augmented Generation (RAG) systems, exploring their impact on educational content retrieval, summarization quality, and learner comprehension.
- Engineered a modular multimodal RAG evaluation pipeline using Sentence Transformers, CLIP, and Pinecone, enabling content retrieval and rapid experimentation across diverse embedding backends for research.
- Co-authored a peer-reviewed paper, “Using Digital Textbook and Classroom Data to Explore Multimodal (Audio, Visual, & Textual) LLM Retrieval Techniques” [PDF], accepted at AIED 2025 (iTextbooks Workshop).
- Recipient of the “Most Compelling Data Visualizations” award at the Capstone Showcase for innovative and interpretable visual representations that advanced insight into multimodal RAG models.

**Lead Data Scientist**  
Piramal Pharma Ltd.

Bethlehem, PA (Remote)  
Jan 2022 – Jun 2024

- Established and led the Data Science Team for the Critical Care Division, building a high-performing team of data scientists in integrating advanced analytics and AI products with best practices into core business functions.
- Prevented \$1.2M in quarterly losses** by implementing causal inference via counterfactual analysis of inventory schedules, write-offs and sales forecasting using Monte Carlo simulations and S-ARIMA, optimizing depleting stock visibility.
- Partnered directly with the CFO** to design interactive market story dashboards combining segmentation analysis and competitive intelligence, shaping global portfolio expansion strategies across five regions.
- Designed unified monitoring workflows in Python to track both business KPIs and ML model health (data drift, prediction quality), enabling early retraining and aligning model performance with business goals and strategies.
- Received the “Piramal Excellence Award” for engineering **over 30 end-to-end analytics pipelines** using Python and SQL on Azure, optimizing reporting frequency by weeks and increasing operational efficiency by 85%.

**Data Science Intern**  
Piramal Pharma Ltd.

Mumbai, India  
Jul 2021 – Dec 2021

- Achieved **15% quarterly increase** in market penetration **across 400,000 retailers** by building the company’s first product recommendation engine using the Tree-based FP-Growth algorithm from scratch.
- Boosted high-performing sales reps **retention rates to 93%** by developing an attrition prediction model using XGBoost and Logistic Regression on historic sales performance and attrition data.

EDUCATION

**University of Virginia**  
Master of Science in Data Science, GPA: 4.0/4.0  
Data Science Ambassador • Teaching Assistant - Statistical Learning • Academic Village Resident (The Range)

Charlottesville, VA  
Jun 2024 – May 2025

**AWS Certifications:** Solutions Architect – Associate, Machine Learning – Specialty

**Birla Institute of Technology and Science (BITS Pilani)**  
Bachelor of Engineering in Mechanical Engineering, Minor in Data Science, GPA: 3.8/4.0

Hyderabad, India  
Aug 2018 – Dec 2021

SKILLS

**Languages:** Python, R, SQL, Scala, JavaScript, Bash      **Tools:** Jupyter, Flask, Docker, Git, Conda, Linux  
**Visualization:** Power BI, Plotly Dash, Matplotlib, Seaborn, Excel  
**AI and ML:** Stat Modeling (Scikit-Learn, XGBoost), Deep Learning (PyTorch, TF), LLMs (LangChain), NLP (NLTK, SpaCy)  
**Cloud and Big Data:** AWS Certified, Azure Databricks, Spark, Snowflake, Hadoop, MLFlow  
**Hobbies:** Singing and Music Analysis (Spotify Artist Map, Classical Raga Viz), Card Games, Chess, Badminton