

SUMMARY

Senior Data Scientist with over 3 years of experience building successful machine learning models and data products across finance, supply chain, and operations. Skilled at leading full-cycle projects - from requirement gathering and pipeline engineering to model development and translating insights into strategic business actions. Proficient in Python, R, SQL, and cloud platforms including Azure and AWS. Passionate about leveraging advanced analytics and AI to drive strategic decision-making.

EXPERIENCE

Machine Learning Researcher

LMI Inc. and UVA School of Data Science

Charlottesville, VA (Remote)

Nov 2024 – Present

- Research focused on the application of multimodal and hybrid modes of RAG based LLMs to enhance educational content retrieval and summarization quality in a cohesiver cohort environment.
- Developed an end-to-end multimodal RAG pipeline using Sentence Transformers and CLIP embeddings, indexing from educational text, images, and lecture audio for efficient semantic retrieval via Pinecone DB.
- **Awarded “Most Compelling Data Visualizations”** at the Capstone Showcase for impactful semantic clustering in topics and intuitive explainability in multimodal RAG systems.

Lead Data Scientist

Piramal Pharma Ltd.

Bethlehem, PA (Remote)

Jan 2022 – Jun 2024

- Established and led the Data Science and Analytics Team for the Critical Care Division, building a high-performing team of 4 data scientists in integrating advanced analytics and AI products with best practices into core business functions.
- **Prevented \$1.2M in quarterly inventory losses** by designing a time-series based supply chain forecasting system leveraging S-ARIMA and Monte Carlo simulations to improve depleting stock visibility and optimizing replenishment cycles.
- Received the **Piramal Excellence Award** for leading the development of **over 30 analytics pipelines** using Python and SQL on Azure and AWS, reducing reporting frequency from monthly to daily, and **increasing operational efficiency by 85%**.
- 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.
- **Partnered directly with the CFO** and commercial teams to build interactive sales and market dashboards that guide targeted expansion strategy across 5 global regions using segmentation and competitive intelligence on market data.

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 implementing 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

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, 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

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

Hobbies: Singing and Music Analysis (Raga Classifier, Spotify Map), Card Games, Chess, Badminton