

EDUCATION

University of Virginia
Master of Science in Data Science

Charlottesville, VA
Jun 2024 – May 2025

Capstone Project (sponsored by LMI Inc.): Implementing Multimodal RAG based LLM for Education
Research on methods in including multimodal data to develop an Agentic AI-enhanced, context-rich learning experience.

Coursework: Statistical Machine Learning • Large Language Models • Deep Learning • Big Data Systems • Bayesian Machine Learning • Applied Data Engineering • Text Analytics • Data Ethics • Data Structures and Algorithms • Linear Models

Activities: Data Science Ambassador • TA - Statistical Machine Learning • Academic Village Resident (The Range)

Birla Institute of Technology and Science (BITS Pilani)
Bachelor of Engineering in Mechanical Engineering, Minor in Data Science

Hyderabad, India
Aug 2018 – Dec 2021

PROFESSIONAL EXPERIENCE

Data Science Lead
Piramal Critical Care (PCC)

Bethlehem, PA (Remote, India)
Jan 2022 – Jun 2024

- Established and **led the Data Science and Analytics Team**, developing end-to-end data products across Supply Chain, Finance, and Sales to enable data-driven decision making and operational growth.
- Engineered automated Data and ML pipelines using Python and SQL, powering **over 30** action-oriented analytics reports across business teams, reducing manual reporting effort by **85%** with real-time validation alerts.
- Introduced **Predictive Modeling** and promoting data-driven actionable insights for market share growth and financial inventory management resulting in **40%** improvement in supply chain efficiency and **\$1.2M** quarterly savings.

Project Highlights:

- Inventory Forecasting:** Implemented a time-series forecasting pipeline for SKU-level inventory forecasting using **S-ARIMA** and **Monte Carlo methods**, reducing monthly write-offs through optimized aging stock management.
- Market Share and Growth Analytics:** Engineered an analytics dashboard using **segmentation analysis** and **competitive benchmarking** to evaluate market dynamics and identify growth opportunities, guiding long-term business strategies.
- Individual Development Plans:** Built a NLP sentiment analysis workflow using **VADER** and **TextBlob** to analyze employee feedback, extracting key insights to inform personalized development plans and improve employee performance.

Data Science Intern
Piramal Consumer Healthcare (PCH)

Mumbai, India
Jul 2021 – Dec 2021

- Worked with cross-functional teams to develop analytical solutions for sales optimization and employee retention.
- Recognized for exceptional performance, leading to an offer for the Data Science Lead role at Piramal Critical Care.

Project Highlights:

- Product Recommendation Engine:** Developed company’s first recommendation engine from scratch using FP-Growth algorithm to optimize product placement, enhancing market penetration by **15%** quarterly across **400k retailers**.
- Attrition Prediction Modelling:** Developed an ensemble of **XGBoost** and **Logistic Regression** to predict salesmen attrition by leveraging performance metrics and key operational features, achieving a **93% critical retention rate**.

SKILLS

Programming Languages: Python, R, SQL, JavaScript, C++, MATLAB, Scala, Julia

AI and ML: Traditional ML, NLP, Deep Learning (PyTorch, TensorFlow), LLMs (LangChain, HuggingFace), OpenCV

Cloud Data Tools: Azure (DataBricks, Data Factory, ML Studio), AWS (SageMaker, Dask, EC2), Git, Docker, PySpark

Data Visualization: Power BI, Plotly Dash, MS Excel (VBA, Power Query), d3.js

CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- AWS Certified Machine Learning – Associate

- Amazon Web Services (expected Mar 2025)
- Amazon Web Services (expected Apr 2025)