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Vishwanath Guruvayur

Data Scientist

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EDUCATION

University of Virginia (UVA)

Master of Science in Data Science

Charlottesville, VA

Jun. 2024 – May. 2025

Capstone Project (sponsored by LMI): *Implementing Multimodal RAG based LLM for Education*

Coursework: *Statistical Machine Learning • Linear Models • Bayesian Machine Learning • Large-Language Models • Deep Learning • Big Data Systems • Applied Data Engineering • Text Mining • Ethics in Big Data • Foundations of CS*

Birla Institute of Technology & Science, Pilani (BITS Pilani)

Bachelor of Engineering in Mechanical Engineering, Minor in Data Science

Hyderabad, India

2018 – 2022

SKILLS

Programming Languages: Python (NumPy, Pandas, Scikit-learn), R, SQL, JavaScript, C++, MATLAB

ML & AI: Predictive ML, Deep Learning (PyTorch, TensorFlow, Keras), LLMs (LangChain), OpenCV, NLP

Cloud & Data Engineering Tools: Azure (DataBricks, Data Factory, ML Studio), Git, Docker, PySpark

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

EXPERIENCE

Piramal Critical Care (PCC)

Data Science Lead

Bethlehem, PA (Remote, India)

Jan. 2022 – Jun. 2024

- **Built and led the Data Science & 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 & SQL for **analytics dashboards**, minimizing manual reporting effort by **85%** in **30+ reports** while improving data accuracy through real-time validation alerts.
- Implemented **predictive modeling** in areas like market share and inventory optimization, achieving **40%** improvement in supply chain efficiency.

Piramal - Consumer Product Division (CPD)

Data Science Intern (6 months)

Mumbai, India

Jul. 2021 – Dec. 2021

- **Main Project:** Developed company's first recommendation engine using FP-Growth to optimize product placement.
- Improved market penetration of products by **15%** quarterly in **400k+ retailers** across India.

PROJECTS

Inventory Management Analytics & Forecasting

Machine Learning | Supply Chain & Finance

Piramal Critical Care

Jun. 2023 - Jun. 2024

- Implemented a time-series forecasting pipeline using **SARIMA** for SKU-level inventory prediction and **Monte Carlo simulations** for scenario planning, reducing monthly write-offs through optimized aging stock management.

Product Sales Market Share & Growth Analytics

Statistical Modeling | Finance & Sales

Piramal Critical Care

May. 2023 - Dec. 2023

- Engineering a market analytics framework for the Injectable Pain Segment, using **segmentation analysis** and **competitive benchmarking** to evaluate market dynamics, growth opportunities, and portfolio strategy.

Sentiment Analysis Modelling of Employee's Feedback Texts

Natural Language Processing | Human Resources

Piramal Critical Care

Apr. 2022 - Dec. 2022

- Designed an ensemble sentiment analysis pipeline combining **VADER** and **TextBlob** to analyze employee feedback, extract actionable insights, and inform personalized development plans.

Attrition Prediction Modelling

Machine Learning | Sales Operations

Piramal CPD

Nov. 2021 - Apr. 2022

- Developed an ensemble ML model of **XGBoost** and **Logistic Regression** to predict salesmen attrition, leveraging performance metric and key operational features, achieving an retention ratio of **93%** for high-performing employees.

Emotion Recognition using Genetic Algorithm

Artificial Intelligence, Computer Vision | Artificial Intelligence Course

BITS Pilani

Jan 2021 - Jun 2021

- Worked on implementing the Genetic Algorithm to identify the emotion of a masked face from a set of emotions using the OpenFace Toolkit for facial landmark detection.