

Vishwanath Guruvayur

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EDUCATION

University of Virginia

Master of Science in Data Science

Charlottesville, VA

Jun. 2024 – May. 2025

Relevant Coursework

Bayesian Machine Learning • Statistical Learning • Linear Models for Data Science • Ethics in Big Data • Foundations of Computer Science • Practical Applications of Data Science

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

Bachelor of Engineering in Mechanical Engineering, Minor in Data Science

Hyderabad, India

Aug. 2018 – Dec. 2022

SKILLS

Programming Languages: Python, R, SQL, C/C++, MATLAB, Julia

Machine Learning & AI: PyTorch, Keras, TensorFlow, Random Forests, FP-Growth, OpenCV

Data & BI Tools: Python (Pandas, NumPy), Azure DataBricks, MS Excel, PowerBI, Docker, SPSS

EXPERIENCE

Piramal Critical Care (PCC)

Data Science Lead

Bethlehem, PA (Remote, India)

Jan. 2022 – Jun. 2024

- **Led the Data Science & Analytics Team** to drive business growth by integrating data-driven strategies across Supply Chain, Demand Planning, Finance, and Sales Operations.
- Implemented multiple **Smart Automation Frameworks**, increasing data accuracy and reducing manual reporting work by **60%** through end-to-end automation and advanced visualizations.
- Delivered **Descriptive & Predictive Analytics** in various projects leveraging ML techniques to uncover sales and supply chain patterns to forecast Market Share trends and prevent potential Material Stock-outs.

Piramal - Consumer Product Division (CPD)

Data Science Intern

Mumbai, India

Jul. 2021 – Dec. 2021

- Developed a **Sales Recommendation Engine** using the FP-Growth Algorithm, optimizing product reach for over 300,000 retailers across India. Implemented a tracking system to refine the recommendations resulting in **15% Market Growth**.
- Created an Ensemble Predictive Model of Random Forest and Logistic Regression to predict Sales Officer's Attrition. Worked with the HR Team to create a feedback mechanism, which improved prediction accuracy and employee retention rates by **20%**.

PROJECTS

Inventory Management Analytics & Forecasting

Machine Learning, Analytics | Supply Chain & Finance

Piramal Critical Care

Jun. 2023 - Jun. 2024

- Created an inventory consumption forecasting model incorporating scenario planning and demand forecasting aimed at reducing monthly provisional write-offs worth around \$70k by optimizing inventory management for aging and expiring stock categories

Piramal Sales Market Share & Growth Analytics

Machine Learning, Analytics | Finance & Sales

Piramal Critical Care

May. 2023 - Dec. 2023

- Developed market share and growth analytics for the injectable pain market, utilizing advanced statistical metrics to classify markets by competitiveness, growth, and portfolio diversity, driving key long-term business decisions.

Sentiment Analysis Modelling of Employee's Feedback Texts

Natural Language Processing | Human Resources

Piramal CPD

Oct. 2021 - Dec. 2022

- Built an ensemble NLP model leveraging VADER Sentiment and TextBlob to analyze employee feedback, identify key development areas, and assign personalized development plans based on sentiment analysis.

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.