Vishwanath Guruvayur

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EDUCATION

University of Virginia Charlottesville, VA
Master of Science in Data Science Jun. 2024 – May. 2025
Relevant Coursework
Statistical Learning • Linear Models for Data Science • Ethics in Big Data • Bayesian Machine Learning • Foundations of Computer Science • Practical Applications of Data Science

Birla Institute of Technology & Science, Pilani (BITS Pilani) Hyderabad, India
Bachelor of Engineering in Mechanical Engineering, Minor in Data Science 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) Bethlehem, PA (Remote, India)
Data Science Lead 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) Mumbai, India
Data Science Intern 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 Salesmen's Attrition. Optimized the model to create a feedback mechanism, which improved employee retention rates by **20%**.

PROJECTS

Inventory Management Analytics & Forecasting Piramal Critical Care
Machine Learning, Analytics | Supply Chain & Finance Jun. 2023 - Jun. 2024
- Created an inventory usage forecasting model incorporating scenario planning and demand forecasting to reduce monthly provisional write-offs worth around $70k by optimizing inventory management for aging and expiring stock categories

Product Sales Market Share & Growth Analytics Piramal Critical Care
Machine Learning, Analytics | Finance & Sales 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 Piramal Critical Care
Natural Language Processing | Human Resources Apr. 2022 - 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 BITS Pilani
Artificial Intelligence, Computer Vision | Artificial Intelligence Course 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.

Application of Swarm Robotics in Object Collection Frameworks BITS Pilani
Optimization | Robotics Jan 2021 - Jun 2021
- Implemented and optimized path planning algorithms for a swarm of drone robots to collaboratively collect various objects in a classroom environment.