Charlottesville, VA
+1 (571) 602-2034
vishguru2704@gmail.com

Vishwanath Guruvayur
Data Scientist

vishugp.github.io
github.com/vishgp
linkedin.com/in/vishgp

EDUCATION

University of Virginia (UVA)   Charlottesville, VA
Master of Science in Data Science   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

BITS Pilani (Birla Institute of Technology & Science, Pilani)   Hyderabad, India
Bachelor of Engineering in Mechanical Engineering, Minor in Data Science   2018 – 2022

SKILLS

Programming Languages: Python (NumPy, Pandas, Scikit-learn), R, SQL, C++, MATLAB, Julia
Machine Learning & AI: PyTorch, TensorFlow, Keras, LLMs, Transformers, Random Forests, OpenCV
Cloud & Data Tools: Azure DataBricks, Docker, PowerBI, MS Excel, Git, Apache Spark, SPSS

EXPERIENCE

Piramal Critical Care (PCC)   Bethlehem, PA (Remote, India)
Data Science Lead   Jan. 2022 – Jun. 2024
- **Established and led the Data Science & Analytics function**, 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** for **analytics dashboards**, minimizing manual reporting effort by **80%** in **30+ reports** while improving data accuracy through real-time validation alerts.
- Introduced **predictive modeling** in market share and inventory achieving **40%** improvement in supply chain efficiency.

Piramal - Consumer Product Division (CPD)   Mumbai, India
Data Science Intern (6 months)   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   Piramal Critical Care
Machine Learning | Supply Chain & Finance   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   Piramal Critical Care
Statistical Modeling | Finance & Sales   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   Piramal Critical Care
Natural Language Processing | Human Resources   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   Piramal CPD
Machine Learning | Sales Operations   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   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.