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Vishwanath Guruvayur

Data Scientist

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

EDUCATION

University of Virginia

Charlottesville, VA

Master of Science in Data Science

Jun 2024 - May 2025

Capstone Project (sponsored by LMI Inc.): Implementing Multimodal RAG-based LLM for Education Research on methods for including multimodal data to build an Agentic AI-enhanced, context-rich learning experience. Coursework: Large Language Models • Big Data Systems • Data Structures and Algorithms • Statistical Machine Learning • Data Engineering • Deep Learning • NLP and Text Analytics • Bayesian Machine Learning • Data Ethics Activities: Data Science Ambassador • TA - Statistical Machine Learning • Academic Village Resident (The Range)

Birla Institute of Technology and Science (BITS Pilani)

Hyderabad, India

Bachelor of Engineering in Mechanical Engineering, Minor in Data Science

Aug 2018 – Dec 2021

Professional Experience

Lead Data Scientist

Bethlehem, PA (Remote, India)

Piramal Critical Care

 $Jan\ 2022-Jun\ 2024$

- Established and led the Data Science and Analytics Team, mentoring a high-performing team of data scientists to integrate advanced analytics with best practices into core business functions.
- Collaborated closely with senior leadership to translate business challenges into data-driven strategies, improving strategic decision-making and boosting operational efficiency.
- Engineered over 30 Data and ML pipelines with Python and SQL for critical analytical reports, reducing manual workload by 85% and enabling real-time insights for faster, more accurate actionable insights.
- Introduced **Predictive Modeling** for streamlining financial planning, market analysis, and supply chain operations, driving a 40% efficiency gain in processes and enhancing visibility into inefficiencies and optimization opportunities.

Key Project Highlights:

- Inventory Forecasting: Prevented \$1.2M in quarterly inventory losses by increasing depleting stock visibility and optimizing replenishment cycles using an S-ARIMA and Monte Carlo simulation-based time-series forecasting pipeline.
- Market Share and Growth Analytics: Created an executive dashboard employing competitive benchmarking and segmentation analysis, identifying growth opportunities, influencing long-term strategic planning at the C-suite level.
- Individual Development Plans: Designed an NLP sentiment analysis model using VADER and TextBlob to analyze performance reviews, identifying key improvement areas and informing HR leadership's talent development strategies.

Data Science Intern

Mumbai, India

Piramal Consumer Healthcare

Jul 2021 - Dec 2021

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

Key Project Highlights:

- Product Recommendation Engine: Developed the company's first recommendation engine pipeline from scratch based on the FP-Growth algorithm, achieving 15% increase in market penetration quarterly across 400k retailers.
- Salesmen Attrition Prediction: Built an ensemble model utilizing XGBoost and Logistic Regression to predict salesmen attrition by leveraging performance metrics and 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, QlikSense

CERTIFICATIONS

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

Amazon Web Services (expected Mar 2025)

Amazon Web Services (expected Apr 2025)