RISHIKESH RAMESH

6802163693 • riramesh@syr.edu • linkedin.com/in/rishikesh2809/ • rishikesh99.vercel.app

EDUCATION

Syracuse University Syracuse, NY
Master of Science | Applied Data Science August 2023 - May 2025
Coursework: Applied Machine Learning, Deep Learning in Practice, Big Data Analytics, Data Analysis and Decision Making, Quantitative Reasoning for Data Science

SRM University Chennai, India
Bachelor of Technology | Electronics and Communication Engineering July 2017 - June 2021

WORK EXPERIENCE

Tredence Inc Chennai, India
Consultant – Analytics, CPG January 2023 - July 2023

- Designed **Power BI Dashboards** to analyze trends in historical sales and projected sales for **3+** supermarket chains in United States, facilitating data-driven decision-making for product strategies.
- Developed and validated **model selection algorithm** to identify the optimal model for all Stock Keeping Units (SKUs) using **MAPE** and **WAPE** as identification metrics, improving forecast accuracy by **12%**.
- Created a **Python** automation script to capture quarterly revenue and gross profit for stakeholders in **Azure Synapse** at SKU and Brand level, reducing data summarizing time for financial analysis by **40%**.

Tredence Inc Chennai, India
Analyst - Analytics, CPG June 2021 - December 2022

- Applied imputation and anomaly correction techniques using **Isolation Forest** and **Statistics** to **170+** SKUs containing **100,000+** historical sales records, improved data quality.
- Developed **Demand Forecasting model** using **Holtwinter**, **auto ARIMA** and **XGBoost** in **Python** to predict 13-week and 52-week sales for **170+** SKUs in North American Region.
- Achieved **83%** accuracy with forecasting model, reducing inventory's OOS instances by **10%**, and generating over **$10,000,000** in additional revenue for stakeholders.

SKILLS

Programming Languages & Tools: Python, SQL, Excel, Power BI, Tableau

Databases & Cloud: MySQL, PostgreSQL, Azure Data Studio, AWS, Snowflake, Azure

Libraries & Framework: NumPy, Pandas, SciKit Learn, Matplotlib, SciPy, Statsmodels, TensorFlow, PySpark

Modeling & Analysis: Regression, Classification, Clustering, Time Series Analysis, Statistical Modeling and Analysis, Neural Networks, A/B Testing, Hypothesis Testing, Transformers, Large Language Models, Prompt Engineering

PROJECTS

LawDigestAI October 2024 – December 2024

- Fine-tuned transformer models (**T5**, **Legal-BERT**) to automate legal case summarization and citation classification, achieving a **ROUGE-1** score of **0.351**, **F1-score** of **0.693** and **70% accuracy** in nuanced legal text analysis.
- Executed advanced **prompt engineering** and optimized preprocessing pipelines for **13,173** legal case records, balancing **24** citation classes into **4** and **reducing noise** through **token filtering**, resulting in a **30%** improvement in model efficiency.
- Implemented a **user-friendly interface** for real-time summarization and citation classification using **Streamlit**, enabling seamless legal text analysis and improving operational efficiency by **50%**.

Predict Delays in Metastatic Cancer with LSTM (WiDS Datathon) April 2024 - June 2024

- Leveraged data from **Gilead Sciences** and **Health Verity** with **150+** features, corrected outliers in numerical features using **mode**.
- Transformed **70+** time-related features applying **melt**, followed by **linear interpolation** and **ARIMA** for missing value predictions.
- Formulated an **LSTM** model to predict the duration of time for metastatic cancer diagnosis in breast cancer patients, achieving a validation **RMSE** of **82.09** and a test **RMSE** of **82.24**.

Image Classification using Deep Learning (CNN) February 2024 - March 2024

- Executed methods to find bounding box coordinates (object detection) for over **208,000** images in **SPARK Dataset**, optimizing label management for training and validation images, minimizing **YOLO's** loss to **0.04**.
- Constructed and optimized a **CNN model** for space object classification, achieving **88%** validation accuracy with **regularization** for robustness, augmenting analytical precision for space monitoring systems.

ACHIEVEMENTS

- Pat on the Back Award 2023 for driving **impactful results** and **collaboration** at Tredence Inc.
- Pat on the Back Award 2022 for **contribution** and **performance** at Tredence Inc.