Rishi Koushik Sridharan

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Professional Summary

Data Scientist with **3+ years of experience** designing and scaling ML systems in supply chain and telecom for Fortune 100 clients. Led development of a store replenishment platform, unlocking $3M in annual savings, and built analytical models that cut false network event alerts by 30%. Currently pursuing a Master's in Data Science at UMD (GPA: 3.95) with advanced coursework in Statistics, Modeling, Big Data, NLP and LLMs.

Education

University of Maryland, College Park, MD   **Aug 2024 - May 2026**
Master of Science, Data Science

SRM Institute of Science and Technology, Chennai, India   **Jul 2017 - Jun 2021**
Bachelor of Technology, Software Engineering
  • **Achievements:** Gold medal for presenting a research paper in the university-wide Research Day program in 2020

Professional Experience

Mu Sigma Business Solutions   **Apr 2023 - Aug 2024**
Lead Data Scientist - Nike - Replenishment Optimization   *Bangalore, India*
  • Optimized inventory replenishment for 6 warehouses catering to **285 B&M stores**, collaborating with supply chain teams to generate **$3.2M EBIT savings**
  • Owned and facilitated the demand forecasting models (Moving Average, Time Series, Regression) and forecast selector on Sagemaker. Observed **25% improved MAPE** in store replenishment signals
  • Enabled real-time fulfillment decisions by devising a method to calculate demand for cold-start and seasonal products from disaggregated franchise level demand, **increasing availability by 80% for over 150 new products**
  • Led the development on a Store Replenishment program and **improved fulfillment by 35%;** automated the STO recommendation pipeline on Airflow to optimize inventory replenishment at the right time, thereby reducing Stockouts
  • Designed Performance KPI and Inventory Health dashboards on Tableau to monitor stock levels and STOs. The dashboard enabled the movement of slow-moving products for clearance, **increasing fulfillment by 10%**

Mu Sigma Business Solutions   **Nov 2022 - Apr 2023**
Data Scientist - Ecolab - Business Development and Strategy   *Bangalore, India*
  • Conducted pre-post statistical analysis on Health Department violation records to evaluate product efficacy, demonstrating a **~26% reduction in violations** after the introduction of Ecolab solutions
  • Performed large-scale sentiment analysis on **10K+ Yelp reviews** across multiple business segments, quantifying customer perception shifts and **identifying 2 major product improvement** opportunities
  • Collaborated with business development teams to transform Python-based Azure analysis notebooks into strategic narratives, enabling targeted customer acquisition campaigns that **reached 20+ prospects**

Mu Sigma Business Solutions   **Jul 2021 - Oct 2022**
Data Scientist - Charter Communications - Network Service Optimization   *Bangalore, India*
  • Engineered analytical solutions on Snowpark by leveraging **8 datasets** (Speed Test, Utilization, Capacity) to monitor network events in real-time for **60 million users**; modeled AI ML solutions leveraging business intelligence, data analysis, and visualization
  • Achieved a **30% reduction in false positives** of irregular events in real-time and optimized resource allocation by building SQL-based state-transition tables on Snowflake
  • **Enabled faster responses** in identifying failing hubs/nodes by devising a novel method to detect outages using modem event data; built dashboards on ThoughtSpot for network connectivity teams to use
  • **Achieved 87% accuracy** in identifying radio-frequency impairments in the network using an Ensemble model of XGBoost and FastAI; Leveraged Fourier Transforms and Spectral Density to reduce dimensionality by 60%
  • Built Python-based automation to flag bandits and cloned accounts, thereby streamlining theft-of-service detection and supporting on-ground door-to-door investigation and termination of **100+ fraudulent cases**

Skills

  • **Core Data Science**: Python, Pandas, PyTorch, R, Time Series, Regression, Classification, Clustering, Feature Engineering, A/B Testing, Hypothesis Testing, Pre-Post Analysis, Microsoft Office Suite
  • **MLOps and Cloud Services**: AWS, Amazon Sagemaker, Airflow, Docker, Kubernetes, S3
  • **Data Engg and Databases**: Snowflake, SQL, PostgreSQL, MySQL, NoSQL, HiveQL, ETL / ELT, Data Modeling
  • **Visualization and Business Intelligence**: Tableau, ThoughtSpot, Matplotlib, Seaborn, Power BI, Report Automation
  • **NLP and LLMs**: NLTK, Transformers, BERT, LangChain, RAG, Vector Databases, FAISS