RAM POLISETTI

+17162567258 | rampolisettius@gmail.com | linkedin.com/in/ram-polisetti | github.com/ram-polisetti

SUMMARY

Data Science Professional specializing in **Statistical Modeling**, **Machine Learning**, and **Big Data Analytics**. Expertly employed **Python** and **SQL** to facilitate **data-driven decision-making** and steering complex **cross-functional projects** to success. Recognized for strategic approach to tackling challenges and possessing a skill set well-suited for the demands of challenging business environments.

EDUCATION

University at Buffalo - SUNY   **Buffalo, New York**
Master's in Data Science   Sept 2022 – Dec 2023

Relevant Coursework: Object-Oriented Programming (OOPs), Machine Learning (ML), Algorithm Design and Analysis, Predictive Modeling, Relational Database Management Systems (RDBMS), Data Analysis, Pattern Recognition, Deep Learning (DL), Natural Language Processing (NLP)

PROJECTS

Fake News Detection on News Articles
- Engineered a robust fake news detection system, conducting exploratory data analysis in **R** to refine **NLP** preprocessing for news articles, achieving 80% detection accuracy.
- Implemented **chi-square** statistical test to identify words indicative of fake and real news, refining the feature set and employed sparse matrix optimization to enhance **Random Forest** model's performance.
- Managed the complete **project lifecycle** from data preprocessing and model development in R to web interface creation and deployed on AWS for scalable, real-time public usage.

User Engagement Score Prediction on Videos
- Refined and deployed a spectrum of machine learning algorithms, boosting user engagement prediction accuracy by 25%, utilizing **MLflow** for model versioning and implementing workflow orchestration with **PreQuest**.
- Leveraged advanced **3D visualization** to decode complex user interaction datasets, uncovering hidden behavioral patterns and informing engagement-boosting strategies.
- Conducted in-depth **statistical analyses of user data**, yielding critical business insights that shaped content strategies and feature enhancements, culminating in a 20% increase in key engagement metrics.

Sentiment-Based Trading Strategy
- Mastered **NLP** to devise a **trading algorithm** with a 97% accuracy rate by analyzing news sentiment impacts on stock prices.
- Led the extraction and analysis of datasets using **TextBlob** and **VADER**, enhanced with a custom financial lexicon, and employed **LSTM** for nuanced sentiment classification.
- Orchestrated deployment of machine learning models in **Docker** containers, optimizing for scalability, and managed version control with **Git** for streamlined project tracking.

AI Investment Advisor with LLM & LangChain
- Developed an advanced **AI stock investment advisor** application integrating **Llama2** and **LangChain**, fostering users to understand market dynamics, thereby enhancing financial decision-making.
- Implemented real-time data ingestion from financial news outlets and a 24-month **financial statement analysis** feature, resulted in 25% increase in predictive accuracy for market trend analyses compared to baseline models.
- Engineered a key feature, enabling the AI advisor to **adjust investment strategies in real-time**, which resulted in a 10% improvement in performance benchmarks.

WORK EXPERIENCE

Amazon   **Hyderabad, India**
Supply Chain Data Analyst, ATS USA Linehaul   Nov 2020 – Jul 2022

- **Enhanced dispatch system efficiency** by 40% through **collaboration with cross-functional teams**; utilized advanced SQL queries on Amazon Redshift, **reducing carrier fraud** by 15% and preventing $35,000 in weekly losses.
- Led a three-member team to **reintegrate over 1,000+ units** into the Amazon Transportation Network, culminating in a 35% increase in network efficiency across North America.
- Spearheaded transportation data analysis initiative; aided in **automated scheduling for equipment repositioning** and optimized routes with Python and SQL, **cutting logistical costs by $2M** and reducing empty miles by 8% annually.
- Collaborated on the development of an **ETL framework** that **consolidated 10+ data sources**, enhancing data accuracy by 40% and streamlining Information flow, which contributed to a 25% reduction in data retrieval time for stakeholders.
- Directed a 5-member logistics data analysis team, acknowledged as a **Subject Matter Expert**; developed and applied SOPs for transport operations, **increasing team acclimatization speed by 30%** and overall efficiency.

SKILLS

Programming Languages: Python, R, SQL, PySpark, Scala, MATLAB, C, HTML5, CSS3, JavaScript
Industry Knowledge: Machine Learning, Deep Learning, Natural Language Processing, Statistical Analysis, Statistical Modeling, Time-Series Analysis, Feature Engineering, Business Analytics, Data Visualization, ETL (Extract, Transform, Load), Cloud Computing (AWS, Azure, GCP), Big Data Technologies (Hadoop), Data Visualization Tools (Tableau, Amazon Quicksight, Power BI), Database Management (PostgreSQL, MySQL), Git, Unix/Linux Operating Systems, Computer Vision, Supply Chain Optimization, Neural Networks, Containerization (Docker)

Certifications: Google Data Analytics Professional Certificate by Coursera, Docker Essentials by Cognitive Class (IBM)