

# Ram Poliseti

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## SUMMARY

Data Science Professional with **expertise in Statistical Modeling, Machine Learning and Big Data analytics**. Demonstrated skill in enhancing data-driven decision-making processes, optimizing Business Processes, and leading cross-functional projects. Excels in fast-paced environments and is adept at leveraging **Python, SQL, and visualization tools** to resolve Business challenges.

## WORK EXPERIENCE

### Supply Chain Data Analyst.

Nov 2020 – Jul 2022

Amazon Development Center

Hyderabad, India

- Orchestrated network monitoring and data analysis to **streamline operations**, employing Amazon Redshift and advanced SQL queries to enhance operations efficiency by 40% and reduce carrier fraud.
- Directed a 5-member logistics data analysis team, employing Python and SQL for **automated scheduling** and route optimization, culminating in a 35% surge in network efficiency across North America.
- 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.
- Executed a **root cause analysis** on supply chain disruptions using statistical modeling, delivering actionable insights that decreased supply chain incidents by 15%.
- Led a cross-departmental initiative to leverage **big data analytics**, enhancing predictive modeling capabilities; improving shipment forecast accuracy by 25%.
- Conducted **advanced time-series analysis**, to optimize Transportation equipment flow into FC's, which resulted in a 15% decrease in operational incidents and a complete avoidance of gridlocks during the holiday season.

## PROJECTS

### AI Investment Advisor with LLM & LangChain

- Created 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 a 25% increase in predictive accuracy for market trend analyses compared to baseline models.
- Developed a feature allowing AI advisor to modify investment strategies in real-time, resulted in a 10% improvement in performance benchmarks.

### Credit Card Fraud Detection

- Spearheaded a credit card fraud detection initiative with IBM's Snap ML, achieving a reduction in model training time, while enhancing the detection accuracy of fraudulent credit card transactions by 35% compared to conventional models.
- Modeled Decision Tree and SVM algorithms to analyze a dataset of over 100,000 credit card transactions, resulting in a 30% enhancement in fraud detection rates compared to traditional methods.

### Uber Analytics (Datatalks ZoomCamp)

- Pioneered the design and execution of Uber's ride-sharing analytics pipeline using Apache Kafka and Spark, slashing data insight generation latency by 30%.
- Engineered a Google Cloud-based data warehousing system, optimizing BigQuery analytical queries which accelerated query performance by 20% and enhanced dynamic pricing models.
- Instituted a comprehensive data quality initiative, refining analytical model accuracy by 25%, and facilitated the integration of diverse data sources into a unified ETL framework, bolstering data dependability.

## EDUCATION

### Master of Science in Data Science

Sept 2022 - Dec 2023

University at Buffalo, The State University of New York

Buffalo, New York

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

## SKILLS

**Languages:** Python Scripting, R, SQL, PySpark, Scala, MATLAB, C, HTML5, CSS3, JavaScript

**Tools & Technologies:** MySQL, PostgreSQL, MLflow, Terraform, Prequest, Mage, Kafka, AWS, GCP, Azure, Docker, Hadoop, Minitab, Tableau, Amazon Quicksight, Power BI, Git, Unix

**Industry Knowledge:** Data Visualization, ETL (Data Transformations), Business Analytics, Root Cause Analysis, Time-Series Analysis, Statistical Modeling, Supply Chain Optimization, Computer Vision, Container Management

## CERTIFICATIONS

**Google Data Analytics Professional Certificate**, Coursera

**Docker Essentials: A Developer Introduction by IBM**, Cognitive Class