# SURAM SUDHEER REDDY

**DATA ANALYST | ANALYTICS ENGINEER | DATA ENGINEERING**

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## PROFESSIONAL SUMMARY

MS Computer Science graduate with a Data Science concentration and experience spanning analytics, large-scale data processing, and software engineering. Built data-focused projects in Python, R, SQL, and Tableau and systems projects in Java, including a multithreaded file retrieval engine. Seeking Analytics Engineer, Data Analyst, and junior Data Engineer roles.

## TECHNICAL SKILLS

**Programming:** Python, SQL, Java, R
**Data Engineering and Analytics:** Data processing, data preparation, multithreading, command-line applications, exploratory data analysis, dashboarding
**Tools:** Maven, Git, Linux/Ubuntu, Jupyter Notebooks, Tableau, MySQL
**Libraries:** Pandas, NumPy, scikit-learn, Matplotlib

## PROJECTS

**Multithreaded File Retrieval Engine | Java, Maven, Concurrency, Git**

- Built a Java-based file retrieval engine with an inverted index and command-line search workflow using Maven.
- Implemented multithreaded indexing with worker threads and lock-protected shared data structures to improve throughput on large datasets.
- Processed datasets larger than 2 GB and tuned JVM memory settings to support large-scale indexing workloads.

**Business Metrics Dashboard and Trend Analysis | Tableau, SQL, R**

- Designed an interactive dashboard in Tableau to track business metrics and surface trend changes from structured data.
- Used SQL and R to query, clean, and analyze data for reporting and visualization workflows.
- Presented raw data as clear charts and summaries to improve stakeholder visibility into performance.

**Customer Behavior Predictive Analytics | Python, R, scikit-learn, Tableau**

- Built predictive models in Python, R, and scikit-learn to analyze customer behavior patterns from structured datasets.
- Cleaned and prepared data for modeling, feature analysis, and evaluation workflows.
- Visualized model outputs and key trends in Tableau to support data-driven decision-making.

## EXPERIENCE

**Amazon Development Centre | Transportation Specialist | June 2022 - December 2022**

- Analyzed transportation and exception data to identify patterns affecting shipping performance and operational efficiency.
- Collaborated with cross-functional teams to support process improvements and data-driven solutions for logistics challenges.
- Tracked performance metrics and recommended workflow or automation changes to streamline network exceptions.

**Indian Servers, Vijayawada | Machine Learning Intern | May 2020 - August 2020**

- Built and optimized machine learning models for data analysis projects using Python-based workflows.
- Performed exploratory data analysis to identify trends, feature relationships, and data quality issues.
- Worked with senior engineers to implement and deploy models for real-time system use cases.

## EDUCATION

DePaul University, Chicago, IL | Master of Science in Computer Science, Concentration in Data Science | Graduated: November 2025

Vaagdevi College of Engineering | Bachelor of Technology in Computer Science | Graduated: 2022