

SOWMYA RAGHAVENDRA

+1 (470) 680 5113 | sraghavendra1@student.gsu.edu | <https://www.linkedin.com/in/sowmya-raghavendra> | <https://github.com/sowmyaraghu19>

WORK EXPERIENCE

Georgia State University Graduate Research Assistant	Atlanta, GA January 2025 – May 2025
<ul style="list-style-type: none">Designed and implemented efficient data pipelines to integrate health IT data (telehealth, AI) with county-level health indicators, optimizing the data process for actionable insights.Conducted data analysis and statistical modeling to uncover trends in healthcare services, directly informing product goals and business insights.	
Georgia State University – Better Business Bureau Graduate Research Assistant	Atlanta, GA August 2024 – December 2024
<ul style="list-style-type: none">Architected a machine learning model that increased business accreditation accuracy by 25%.Performed sentiment analysis using Natural Language Processing (NLP) on company news articles, strengthening fraud detection capabilities.Led a team of 10+ researchers to implement data-driven accreditation processes, streamlining operations and reducing manual verification by 40%.	
Mercedes Benz Research & Development India Software Consultant	Bangalore, India August 2022 – August 2024
<ul style="list-style-type: none">Developed and optimized ETL pipelines in PySpark, and SQL improving data processing efficiency by 20%.Engineered real-time data streaming solutions using Apache Kafka, enhancing system scalability and reducing data ingestion latency by 40%.Designed data models for microservices and structured data storage to support both transactional processing and downstream analytics.Managed and deployed containerized microservices via Kubernetes and Docker, improving system reliability and uptime by 30%.Automated CI/CD pipelines on Azure DevOps, reducing deployment time by 35% and improving system maintainability.Led cross-functional collaboration with product managers and analysts to align data strategies with business goals.	

PROJECTS

Walmart Logistics and Supply Chain Optimization <i>Python, Machine Learning, Prophet, K-Means Clustering</i>	
<ul style="list-style-type: none">• Forecasted demand across regional warehouses using Time Series Analysis (Prophet), reducing stockouts and excess inventory by 15%.• Applied K-Means clustering to optimize warehouse locations, reducing transportation costs by 20% and improving delivery efficiency.	
Netflix Data Pipeline <i>Azure, PySpark, Airflow, Delta Live Tables, SQL, Databricks</i>	
<ul style="list-style-type: none">• Built an end-to-end data pipeline using Azure Data Factory and Databricks, reducing manual intervention by 80%.• Optimized data ingestion workflows with validation checks, boosting query performance by 50%.	

SKILLS

Programming: Python, SQL (MySQL, PostgreSQL), PySpark, Java
Big Data & Analytics: Apache Spark, BigQuery, Databricks
ETL & Data Pipelines: Apache Airflow, Kafka, Data Factory, Blob Storage, Pipelines
Cloud & DevOps: Azure (Data Factory, Databricks, Redis Cache, Log Analytics), GCP
Visualization & Tools: Power BI, Looker Studio, Jupyter Notebook
Machine Learning & AI: Regression, Clustering, Decision Trees, Random Forest, Neural Networks
Version Control & Workflow: Git, Jira, CI/CD (Azure DevOps, Docker, Kubernetes)

EDUCATION

Georgia State University – J. Mack Robinson College of Business Master of Science in Data Science and Analytics <i>GPA: 4.0/4.0</i> Coursework: Machine learning, Deep Learning, Statistics, Data Visualization, GenAI	Atlanta, GA August 2024 – December 2025
Dayananda Sagar Academy of Technology & Management Bachelor of Engineering in Computer Science <i>GPA: 3.87/4.0</i> Coursework: Data Programming, Database Management systems, Big Data Analytics	Bangalore, India July 2018 - July 2022