Sravani Elavarthi

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Education

University of Maryland, College Park **Aug 2024 – May 2026**
Master of Science in Data Science — **GPA: 4.0/4.0** College Park, MD

- **Teaching Assistant**: Big Data Technologies (Summer 2025)
- **Coursework**: Big Data Systems, Cloud Computing, Machine Learning, Deep Learning, NLP, Database Management

Professional Experience

Graduate Assistant **Oct 2024 – Present**
University of Maryland, Office of Research Administration College Park, MD

- Automated **ETL pipelines** integrating data from Kuali Research and 6+ sources with validation, improving data reliability.
- Built ingestion workflows using **Apache Airflow** and **Python** to automate data processing and storage in **AWS S3**, reducing manual and ensuring consistent data availability.
- Designed and deployed **Tableau dashboards** for 1,500+ users, cutting report generation time by 50% and enabling timely analytics.

Data Engineer **Oct 2023 – Jul 2024**
Cognizant | Client: Google Bengaluru, India

- Processed batch datasets for **Google Chrome Extensions**, reducing manual prep by 40% through automated Python and SQL workflows.
- Developed ETL scripts in Python and SQL to transform and load data into **BigQuery**, enabling analytics and reporting across teams
- Applied **ARIMA** and **LSTM** models to forecast user traffic with 87% accuracy, improving server allocation and reducing downtime.
- Migrated workflows to **GCP**, enhancing pipeline scalability and cutting data latency for real-time analytics.

Data Engineer Intern **Mar 2023 – Sep 2023**
Cognizant Bengaluru, India

- Developed a data pipeline to collect telemetry data for modeling and reporting, using **Airflow** to orchestrate dbt jobs, improving data availability.
- Cleaned, modeled, and curated datasets for sales opportunity forecasting and other **Machine learning** use cases, increasing prediction accuracy by 15%.

Projects

Traffic Speed Forecasting and Prediction
Technologies: **Python**, **ARIMA**, **LSTM**, **TensorFlow**

- Predicted urban traffic congestion by applying **ARIMA** and **LSTM** models on historical traffic data and achieved **83%+ accuracy** and provided actionable insights for city planners to optimize traffic flow.

Arsenal FC Data Pipeline & Analysis Project
Technologies: **Apache Spark**, **PostgreSQL**, **Apache Airflow**, **PowerBI**, **Python**

- Built an end-to-end data engineering pipeline for Arsenal FC using Spark, PostgreSQL, and Airflow to ingest, transform, and analyze 2017–2023 player and match data, enabling insightful PowerBI visualizations for performance analysis.

CyberSanity — AI-Powered Phishing Detection System
Technologies: **Deep Learning**, **CNNs**, **Artificial Intelligence**, **GCP**

- Designed an AI-powered phishing URL detection system using Machine Learning, **PyTorch**, **TensorFlow**, and **FastAPI**,reducing false positives and providing a scalable cybersecurity solution.

Technical Skills

Languages: Python, SQL, Java, JavaScript
Frameworks: TensorFlow, PyTorch, FastAPI, Spark, Hadoop, Hive, Apache Airflow
DevOps: Docker, Git, GitHub Actions, Jenkins, CI/CD
Databases: PostgreSQL, MySQL, BigQuery, Redshift, MongoDB
Cloud & Tools: AWS (S3, Glue, Athena, Lambda, EC2, EMR, Kinesis, Redshift), Azure, GCP, Tableau, Looker
Certifications: Apache Airflow (Astronomer Certified), AWS Training & Certification

Achievements & Leadership

- Solved **450+ LeetCode problems**, including all top SQL questions; ranked in the **top 10% globally**.
- Recipient of **University of Maryland Graduate Scholarship** (2024–2026), awarded to the top 5% of students for outstanding academic and professional excellence.