Hrushikesh Sai Sehsagiri Chowdary Uppalapati

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Education

George Washington University **August 2023 - May 2025**
Master of Science in Data Science (GPA: 4.00/4.00) *Washington DC, USA*

Vellore Institute of Technology **July 2019 - May 2023**
Bachelor of Technology in Computer Science Engineering spec. AI (GPA: 3.63/4.00) *Andhra Pradesh, India*

Technical Skills

Languages: Python, SQL, Java, HTML/CSS, R
Developer Tools: Git, GitHub, Jupyter Notebook, Google Colab, Eclipse, NetBeans IDE, RStudio, VS Code
Databases: MySQL, MongoDB, PostgreSQL
Data Engineering Frameworks: Apache Airflow, Apache Spark (PySpark, Spark SQL), Pandas, NumPy, Parquet, JSON, CSV, Statsmodels, scikit-learn
Cloud Infrastructure: AWS (S3, Lambda, Glue, SageMaker, QuickSight), Google Cloud Platform (BigQuery, Cloud Storage), Microsoft Azure, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)
Visualization Tools: Power BI, Tableau, Plotly, Matplotlib, Seaborn
Concepts: Data Modeling, Data Pipelines, Version Control, End-to-End Workflow Ownership, Production Debugging

Experience

Data Scientist | *ZettaMine Labs Pvt Ltd* **May 2024 – August 2024**

- Designed and implemented scalable data pipelines using Python and SQL to classify patient risk, achieving an F1-score of 88% and reducing processing time by 30%.
- Engineered 15+ features from raw clinical data (vitals, diagnosis, treatment) to improve predictive accuracy and pipeline reusability.
- Integrated model outputs into Power BI dashboards and SAP tools used by 3+ departments for early decision support and monitoring.
- Collaborated on version-controlled codebase with Git and contributed to debugging and data validation workflows.

Data Scientist | *Bizom* **September 2022 – July 2023**

- Developed and deployed churn prediction models in Python with 85% accuracy, monitored using automated Airflow pipelines.
- Wrote SQL and Python scripts to ingest, clean, and transform real-time customer engagement data; boosted campaign click-through rates by 15%.
- Improved data quality by implementing validation layers and schema checks; worked with GCP-based services and Dockerized scripts for scalable deployment.
- Participated in code reviews, version control using Git, and contributed to end-to-end delivery of production-grade analytics workflows.

Projects

Forecasting Temperatures using Time Series and Advanced ML Techniques. | *GWU* **January 2025 - May 2025**

- Evaluated ARIMA, SARIMA, Random Forest, LSTM, and XGBoost on U.S. temperature data; XGBoost performed best (RMSE: 3.74, MAE: 2.87, R^2: 0.947) by capturing nonlinear patterns and feature interactions.
- Engineered lag features, rolling averages, and seasonality encodings; LSTM captured long-term temporal dependencies, offering valuable insights into sequential temperature trends.

Impact of Weather on Energy Consumption Using AWS Cloud Services. | *GWU* **August 2024 - December 2024**

- Developed and benchmarked ML models in AWS (Glue, SageMaker, QuickSight), forecasting 50+ years of energy trends.
- Delivered an R^2 of 0.95 and RMSE of 0.209 using AutoML, outperforming manual models.
- Random Forest being the best manual model achieved R^2 of 0.904 and MSE of 0.07391, demonstrating strong generalization.
- Identified month, temperature, and year as key drivers of energy demand, uncovering seasonal peaks in winter and long-term trends linked to industrialization.