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, Java, HTML/CSS, SQL, R
Developer Tools: Eclipse, NetBeans IDE, RStudio, GitHub, Git, Jupyter Notebook, Google Colab, Tableau, Power BI
Databases: MySQL, MongoDB, Cassandra, Neo4j
Technologies/Frameworks: OpenCV, ggplot2, Matplotlib, Pandas, TensorFlow, NLTK, NumPy, YOLO, Statsmodels, scikit-learn, Seaborn, MediaPipe, Keras, PyTorch, Prophet, Plotly, D3.js, AutoML
Big Data and Cloud Technologies: AWS S3, AWS Lambda, AWS Glue, Amazon SageMaker, Amazon QuickSight, Google Cloud Platform, Kubernetes, Microsoft Azure

Experience

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

- Designed and implemented a patient risk stratification pipeline using Random Forest, enabling classification of patients into high- and low-risk categories with an F1-score of 88%, supporting early clinical decision-making.
- Engineered 15+ clinical features from vitals, diagnoses, and treatment history to improve patient risk classification accuracy.
- Built reusable pipelines in Python/SQL that reduced processing time by 30%, and integrated predictions into Power BI and SAP dashboards used by 3+ departments.

Data Scientist Intern | *Mobisy Technologies Pvt Ltd* **September 2022 – July 2023**

- Built and deployed a machine learning model in Python to predict user churn (85% accuracy), and developed Power BI dashboards to monitor campaign performance and customer behavior.
- Automated data pipelines and wrote SQL/Python scripts for real-time engagement analytics, leading to a 15% increase in click-through rates and reduced notification fatigue by 10%.
- Collaborated with cross-functional teams to improve data accuracy, support AWS-based model deployment, and contribute to workflow automation using modern reporting and integration tools.

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.

Starbucks Customer Segmentation and Offer Success Prediction. | *GWU* **August 2023 - December 2023**

- Collaborated with a team to segment 17,000+ Starbucks customers using K-Means clustering based on demographics and offer interaction data, and designed a custom offer success metric for BOGO, Discount, and Informational campaigns.
- Delivered and explained predictive insights from Logistic Regression with 0.97 AUC and 0.91 AUC using Decision Trees to peers and instructors, enabling precise, data-driven marketing strategies.