HRUSHIKESH UPPALAPATI

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EDUCATION

George Washington University **Aug 2023 – May 2025**
- MS in Data Science, GPA: 4.00/4.00

Vellore Institute of Technology **Jul 2019 – May 2023**
- B.Tech. in Computer Science Engineering with Spec in Artificial Intelligence

TECHNICAL SKILLS

Programming: Python, SQL, Java, R, HTML/CSS
Data Engineering: Apache Airflow, Apache Spark (PySpark, Spark SQL), Pandas, NumPy, Statsmodels, scikit-learn, Parquet, JSON, CSV
Databases: MySQL, PostgreSQL, MongoDB
Cloud & Infra: AWS (S3, Lambda, Glue, SageMaker, QuickSight), GCP (BigQuery, Cloud Storage), Azure, Docker, Kubernetes, CI/CD
Visualization: Power BI, Tableau, Excel, SAP (BI/Analytics), Plotly, Matplotlib, Seaborn
Developer Tools & Concepts: Git, GitHub, Jupyter, VS Code, Google Colab, Data Modeling, Data Pipelines, Version Control

EXPERIENCE

Data Scientist, ZettaMine Labs Pvt Ltd **May 2024 – Aug 2024**
- Designed and deployed Python/SQL pipelines for patient risk stratification using Random Forest, delivering 88% model performance and reducing processing time by 30%.
- Engineered 15+ features from vitals, diagnosis codes, and treatment history to improve predictive accuracy and reusability.
- Published outputs into Power BI and SAP dashboards used across 3+ departments, enabling early decision support and real-time monitoring.
- Integrated risk prediction outputs into production reporting systems, ensuring reliable access for hospital decision-makers.

Data Scientist, Bizom **Sep 2022 – Jul 2023**
- Developed and implemented churn prediction models in Python with 85% accuracy, automating retention workflows and reducing manual analysis time.
- Wrote SQL/Python jobs to ingest, clean, and transform cross-channel engagement logs; improved targeting and raised campaign CTR by 15%.
- Enhanced data quality with validation checks and containerized workflows, enabling scalable production deployment.
- Collaborated with engineers and analysts in code reviews and debugging sessions, improving model accuracy and reducing release issues.
- Created interactive dashboards to visualize adoption and retention trends across active users, providing business teams with real-time visibility into churn risk and enabling data-driven strategies for reducing customer turnover.

CERTIFICATIONS

Microsoft Certified Azure Data Scientist Associate
AWS Certified Data Engineer Associate

PROJECT EXPERIENCE

Temperature Forecasting using Time Series & ML | George Washington University **Jan 2025 – May 2025**
- Evaluated ARIMA, SARIMA, Random Forest, LSTM, and XGBoost on **2.9M daily U.S. temperature records**; XGBoost achieved the lowest RMSE of **3.74** and MAE of **2.85**.
- Engineered lag features, rolling averages, and seasonality encodings; improved forecast accuracy with **R^2 of 0.94**, producing comparative plots and error analysis for stakeholders.
- Built interactive dashboards in Plotly and Tableau to visualize 6-month rolling forecasts, supporting decision-making in agriculture and energy planning.

Impact of Weather on Energy Consumption (AWS) | George Washington University **Aug 2024 – Dec 2024**
- Built an end-to-end pipeline in AWS (S3, Glue, SageMaker, QuickSight) to analyze 50+ years of weather and energy demand data.
- Developed and compared ML approaches; Random Forest achieved R^2 of **0.90**, AutoML reached R^2 of **0.95** with RMSE of 0.209, uncovering seasonal peaks in Jan/Dec heating demand.