Adithya Singupati

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github.com/MrAdithya21, Portfolio

Education

Indiana University Bloomington — *Master of Science in Data Science*
Graduation: May 2025
Relevant Coursework: Applied Machine Learning, Applied Algorithms, Computer Vision, Usable AI, Data Visualization, Advanced Database Technologies, Intro to Statistics
Gayatri Vidya Parishad College of Engineering — *Bachelor of Engineering in Computer Science*
Graduation: June 2023 — GPA: 3.7/4.0
Relevant Coursework: Software Engineering, Big Data Analytics, Data Mining, Artificial Intelligence

Skills

Programming Languages: Python, R, SQL, Java, JavaScript, C
Data Engineering and BI: Data Pipelines, ETL (Extract, Transform, Load), Microsoft Fabric (basic), Power BI, SAP ECC integration, Snowflake
Machine Learning and Modeling: Supervised/Unsupervised Learning, Regression, Clustering, Scikit-learn, Transformers, Azure AI
Cloud Platforms and Tools: AWS (SageMaker, Lambda), Azure (AI/ML, Blob Storage), Jupyter Notebooks, Git, Linux CLI
Statistical Analysis: A/B Testing, Predictive Analytics, Hypothesis Testing, Statistical Inference
Visualization and Reporting: Tableau, Power BI, Matplotlib, Seaborn, D3.js
Collaboration and Workflow: Agile, JIRA, Cross-functional Communication

Projects

Distributed Energy Forecasting with ML and Azure (Independent Project)
- Built scalable ML models for energy demand forecasting; deployed inference pipelines on Azure ML Workspaces linked with Azure Blob Storage.
- Optimized hyperparameters and ensemble models, improving forecasting performance by 15%.

Iris Classification Project
- Developed classification models (Logistic Regression, Decision Trees) achieving 97% accuracy; visualized feature importance using Matplotlib and Seaborn.

Database Management System for Retail Inventory
- Constructed a SQL database integrated with Power BI dashboards to streamline retail inventory management.
- Improved reporting efficiency by 40% through optimized ETL workflows and schema designs.

Segmentation Analysis for Customer Insights
- Analyzed 1M+ customer records via k-means clustering; delivered insights through SQL queries and Power BI dashboards, boosting marketing conversions by 20%.

Experience

Data Analyst — *O'Neill School of Public and Environmental Affairs*, Bloomington, IN, USA November 2024 – Present
- Designed automated data pipelines for 500K+ data points; enhanced data accuracy to 99% and streamlined reporting into Power BI.
- Built 10+ interactive D3.js dashboards and optimized processing workflows, improving data delivery speed by 40%.

Data Scientist (Research Assistant) — *Kelley School of Business*, Bloomington, IN, USA March 2024 – Present
- Engineered robust batch inference workflows on AWS-Azure hybrid cloud environments, integrating model outputs into BI pipelines.
- Collaborated with data engineers and cross-functional teams to ensure seamless model integration and dashboard readiness.

Data Scientist Intern — *MyEdMaster LLC*, Leesburg, Virginia, USA May 2024 – August 2024
- Built Logistic Regression models for SAT performance prediction (85% accuracy); automated data ingestion pipelines and visualized results on Power BI.

Publications

Accessing General Health Care Facilities, IRJET, Vol. 9 Issue 10
Developed an e-health platform for real-time medical equipment availability.
https://www.irjet.net/archives/V9/i10/IRJET-V9I10150.pdf
Tracking the Storm: Visualizing Trends in U.S. Hurricanes and Climate Impact, IRJET, Vol. 12 Issue 1
Analyzed hurricane data to develop climate impact visualizations using advanced analytics.
https://www.irjet.net/archives/V12/i1/IRJET-V12I138.pdf

Certifications

- AWS Certified Cloud Practitioner
- Tableau Desktop Specialist