

# Adithya Singupati

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[github.com/MrAdithya21](https://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, SQL, R, Java, JavaScript, C

**Business Analytics & Tools:** Microsoft Excel, Power BI, Tableau, KPI Reporting, Dashboarding, Process Optimization

**Data Science & ML:** Regression, Classification, Clustering, Dimensionality Reduction, Generative AI, NLP

**Data Engineering:** ETL Pipelines, Data Modeling, Data Validation, SQL Optimization, Apache Airflow, dbt

**Collaboration & Leadership:** Cross-functional Projects, Agile, JIRA, Stakeholder Communication, Team Coordination

## Projects

### Iris Classification Project

- Designed a classification model using Logistic Regression and Decision Trees to classify iris species with 97% accuracy.
- Implemented model evaluation and used cross-validation to ensure robust results.
- Visualized feature importance and model performance using Matplotlib and Seaborn.

### Database Management System for Retail Inventory

- Developed a scalable SQL database and implemented ETL routines to manage retail inventory data with real-time insights.
- Created data pipelines for seamless data extraction, cleaning, and transformation to prepare data for analysis.
- Built interactive Power BI dashboards to monitor sales and inventory trends.

### Market Data Modeling and Customer Segmentation Analysis

- Designed a pipeline using Python and SQL to ingest and validate over 1M market/customer records from diverse sources.
- Applied PCA and clustering techniques to model data groupings and uncover patterns in customer behavior and asset interaction.
- Automated monitoring processes to flag anomalies, ensuring data accuracy and improving downstream analytics reliability.

### Generative AI Chatbot with Hugging Face

- Built a chatbot using Hugging Face's transformers library, leveraging GPT-3 for natural language understanding.
- Developed and deployed the model using AWS Lambda for real-time inference and SageMaker for model training and monitoring.
- Integrated the chatbot into a customer service application, improving response time by 30%.

## Experience

**Data Analyst** — *O'Neill School of Public and Environmental Affairs*, Bloomington, IN November 2024 – Present

- Created dashboards and automated weekly reporting pipelines to analyze 500K+ operational records using Python and D3.js.
- Partnered with internal teams to standardize reporting practices and monitor service delivery metrics across departments.
- Communicated insights in stakeholder meetings, leading to 25% improvement in reporting efficiency.

**Research Assistant (Data Analytics)** — *Kelley School of Business*, Bloomington, IN March 2024 – Present

- Applied NLP on 80M+ articles to extract business-relevant sentiment indicators and trends related to economic policy.
- Presented project updates to professors and project partners, offering data-backed recommendations for strategic focus.
- Worked across business and technical teams to align research goals with enterprise and market needs.

**Data Scientist Intern** — *MyEdMaster LLC*, Leesburg, VA May 2024 – August 2024

- Led a predictive modeling project to improve personalized learning, achieving 85% prediction accuracy on SAT scores.
- Collaborated cross-functionally with software developers and educational staff to transform data insights into actionable product features.
- Created Excel-based dashboards and performance summaries to communicate impact to non-technical stakeholders.

## 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 & Climate Impact**, IRJET, Vol. 12 Issue 1

Analyzed hurricane data to develop climate impact visualizations and trends using advanced analytics.

<https://www.irjet.net/archives/V12/i1/IRJET-V12I1138.pdf>

## Certifications

- AWS Certified Cloud Practitioner
- Tableau Desktop Specialist