

# Aditi Reddy Doma

[aditidoma@gmail.com](mailto:aditidoma@gmail.com) | 917-337-7045 | [linkedin.com/in/aditreddydoma](https://linkedin.com/in/aditreddydoma) | [GitHub](https://github.com/aditreddydoma) | [Portfolio](#)

## EDUCATION

### Masters of Science in Data Science

Rochester Institute of Technology (GPA: 4.0/4.0)

Expected: December 2026

Rochester, New York

Relevant Coursework: Applied Statistics(A), Database Management(A), Visual Analytics(A), Software Construction(A)

### Bachelor of Technology in Artificial Intelligence

Mahindra University (GPA: 3.56/4.0)

July 2020 - May 2024

Hyderabad, India

Relevant Coursework: Machine Learning(A-), Data Structures & Algorithms(A), Generative Artificial Intelligence(A-), Operating Systems(A-)

## SKILLS

- **Programming Languages:** Python, Java, R, MySQL
- **Machine Learning:** Pandas, NumPy, Scikit-Learn, Keras, TensorFlow, PyTorch
- **Cloud Platforms:** AWS, Kafka, Databricks, Apache Spark
- **Tools & Technologies:** Tableau, Power BI, Looker, MS Excel, MS Word, MS PowerPoint, ETL, Git

## WORK EXPERIENCE

### Data Science Research Intern

iCitizen

May 2025 - Present

Remote, USA

- Web scraped and analyzed 500K+ unstructured congressional profiles from Congress.gov and Bioguide websites using APIs, transforming unstructured data into structured datasets stored in **AWS DynamoDB** for real-time updates.
- Designed a dynamic U.S. map using **D3.js**, visualizing senators, their sponsored bills and co-sponsors by state.
- Increased user engagement by 27.2% on the iCitizen app by developing a chatbot predicting likelihood of a bill becoming law.

### Graduate Teaching Assistant

Rochester Institute of Technology

January 2025 - Present

Rochester, New York

- Guided 200 undergraduates in **database systems** and **SQL** through labs focused on **query writing** and **relational data modeling**.

### Business Analyst Intern

StandardWings Technologies Pvt. Ltd.

December 2023 - July 2024

Nashik, India

- Documented client requirements by collaborating with 15+ cross-functional team members and attending client meetings.
- Extracted actionable insights from 20,000+ rows of patient data using **Pandas**, which contributed to the design of an application that improved patient onboarding and streamlined appointment scheduling.
- Presented the application functionality to technical and non-technical stakeholders using clear **MS PowerPoint** decks.

### Machine Learning & Data Analyst Intern

Cloud4C

June 2023 - August 2023

Hyderabad, India

- Achieved over 90% accuracy in a sentiment analysis model using **BERT** to analyze customer feedback.

- Performed large-scale text analysis on customer feedback using **Databricks** with **PySpark** for data processing.

- Identified top 5 recurring customer concerns using unsupervised learning (**K-Means clustering**) on BERT embeddings.

## PROJECTS

### Portfolio Allocation Model ([GitHub](#))

September 2022 - December 2022

- Researched and scraped 5 years of stock data for 9 companies across 3 sectors using Yahoo Finance and optimized portfolio allocation through mean-variance modeling using **Pyomo**, **NumPy** and **Pandas**.
- Identified Buy & Hold as the optimal investment strategy with 15% ROI by performing statistical analysis of risk-return trade-off assessments using Monte Carlo simulation in **Python**.

### Covid Data Exploration and Visualization ([GitHub](#))

August 2023 - October 2023

- Identified COVID-19 and vaccination impact trends using **MS Excel** and **SQL queries**. Visualized the trends in **Tableau**.

### Strategic Insights for Mitron Bank's New Credit Card Line ([GitHub](#))

September 2024 - November 2024

- Developed 3 Power BI dashboards using **Power Query** to analyze income, expenditure and customer segmentation trends.

### Energy Consumption Predictor ([GitHub](#))

February 2025 - April 2025

- Forecasted hourly energy consumption with 92.54% accuracy using **Supervised Learning (Linear Regression)** in R for 5K+ homes.
- Designed a **Shiny dashboard** to visualize how temperature, time and house attributes influence future energy consumption.

### AutoConvo: Real-Time Driver Intent Detection ([GitHub](#))

May 2025 - September 2025

- Designed a voice command system using **Whisper ASR** and **DistilBERT** to classify 40+ in-car voice commands at 92% accuracy.
- Optimized deployment on Jetson Nano with **TensorRT** and **CUDA** to handle real-time voice commands and deliver relevant responses via light-weight APIs.

### IOT Telemetry Analytics for Health Monitoring Devices ([GitHub](#))

September 2025 - December 2025

- Developed ETL pipeline using Kafka + PySpark to process 2M+ IoT telemetry records from health devices (glucose, heart-rate).
- Reduced false alarms by 18% by fine-tuning anomaly detection models (**Isolation Forest**, **ARIMA**) for abnormal health data.