SAI VANAMALI SIMHAMBHATLA

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EDUCATION

Master Of Data Science , Monash University, Melbourne (Ongoing)	2025-2027
Bachelor of Technology (IT) , Jawaharlal Nehru Technological University, Kakinada (A)	2020-2024

SKILLS

Languages	Python, SQL, Go, TypeScript, JavaScript, C++
Frameworks	Fast-API,Scikit-learn, PyTorch, Transformers, Pandas, NumPy, React, Node.js
Libraries	PyTorch, Pandas, Transformers, Numpy, Seaborn, Beautiful soup, Axios
Databases	PostgreSQL, MongoDB, SQLite, DynamoDB
Tools	Git, Docker, AWS SAM, VS Code, Kaggle, Flutter
Technical Abilities	Machine Learning, Data Analysis, Predictive Modeling, API Development

EXPERIENCE

Freelane Contract

Python Developer   *March 2025 - Current*

- Building an end-to-end review analytics dashboard with a FastAPI backend and GPT-4 integration for sentiment analysis and feedback generation.
- Developed a data pipeline to process reviews and ratings, integrating APIs into the client's existing Vite.js frontend for real-time analytics and insights.

SilverOak Apps

Machine Learning Intern   *June 2023 - Feb 2025*

- Developed APIs (Go, TypeScript) for real-time asset price retrieval and RSS feed ingestion, optimizing with caching.
- Built a Flutter-based subscription UI with Bloc, Freezed, and Injectable for dynamic plan updates.

PROJECTS

Customer Churn Analysis for Retail

- Tech Stack: Python, Scikit-learn, Pandas, RFM Analysis, SQL
- Improved churn prediction (82 percent) by segmenting customers using RFM analysis on 250K+ transactions.

Mira – AI-Powered Mental Wellness Platform

- Built a FastAPI backend and data pipeline to serve fine-tuned GPT-2 outputs, processing sensitive user data via PostgreSQL and SQLAlchemy. Integrated AI modules with a React frontend for real-time delivery of wellness tasks and journal responses.
- Designed and fine-tuned GPT-2 models to generate empathetic journal responses and personalized "Side Quest" recommendations based on user attributes (MBTI, age, mood, and student status).

Disaster Prediction and Management Portal

- Delivered AI-based disaster prediction system for Earthquakes, Forest fires and Bush fires with 88 percent accuracy and live disaster data APIs.

ACHIEVEMENTS AND CERTIFICATIONS

- AWS Machine Learning Foundations   Issued: June 3 2023
- AWS Cloud Foundations   Issued: September 9 2022