



Venkat Adithya

CONTACT

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Portfolio: [Click to Open](#)

CAREER OBJECTIVE

Results-driven AI & Data Science undergraduate with hands-on experience building production-grade GenAI applications and LLM-integrated backend systems. Proficient in Python, FastAPI, and core ML frameworks, with strong expertise in LLM API integration, RAG pipelines, and scalable AI architectures. Seeking opportunities to specialise in AI-driven application development – spanning LLMs, multi-agent systems, and intelligent automation – to build systems that create meaningful impact at scale.

EDUCATIONAL BACKGROUND

Shiv Nadar University, Chennai

- **Course:** Artificial Intelligence & Data Science
- **Year of Study:** 2023-expected2027
- **CGPA:** 8.37

Resonance Junior College, Hyderabad

- Higher Secondary Education, Board of Intermediate Education-Telangana
- **Year of Study:** 2021-2023
- **Percentage:** 95.7

CVR Memorial High School, Anantapur

- Board of Secondary Education
- **Year of Study:** 2010-2021
- **Percentage:** 100

TECHNICAL SKILLS

Languages:

Python, Java, C, HTML, CSS

Frameworks and Libraries:

PyTorch, Django, FastAPI, Streamlit, Pandas, Numpy, Matplotlib, Seaborn, SKlearn

Database:

MySQL, PostgreSQL, SQLite, Redis

Tools and Platforms:

Git, GitHub, Postman, Tableau, Supabase

Other:

LLM API integration, RAG Integration, Model-Context-Protocol(MCP), Data Pre-Processing & Visualisation, Machine Learning & Fine-Tuning, Rest API's

PROJECTS

SAM (Self Adaptive Music Intelligence)

[View on Github](#)

- Developed a first-of-its-kind platform-agnostic voice first music assistant that unifies Spotify and SoundCloud via a scalable Adapter Layer architecture, designed for seamless extensibility to future platforms.
- Engineered a low-latency speech-to-action pipeline using Groq (Llama 3) with conversational context handling to interpret natural language and execute complex music commands.
- Created an immersive 3D audio-visual experience backed by an asynchronous FastAPI system, utilizing Celery and Redis to minimize latency and ensure real-time responsiveness.
- **Tools Used:** Python, FastAPI, React, TypeScript, Three.js, Groq Llama 3, PostgreSQL, Redis, Celery.

NutriScan AI

[View on Github](#)

- Built a visual calorie and macro tracking application leveraging Google Gemini 2.5 Flash to accurately analyse food images, extracting precise nutritional estimations. Designed a high-performance FastAPI backend to manage asynchronous communication with a dynamic React SPA with Framer Motion and Recharts for interactive data visualisation, integrating Firebase through MCP for secure user authentication.
- **Tools Used:** Python, FastAPI, Gemini 2.5 Flash API, React, TypeScript, Firebase, Zustand, Recharts

Career GPS

[View on Github](#)

- Developed an AI-powered Streamlit web application to generate personalised career roadmaps and track weekly progress. The application uses user input or uploaded resumes to suggest learning paths aligned with specific career goals and verifies recommended resources using real-time web search.
- **Tools Used:** Python, Streamlit, Mistral-7B Instruct model(via OpenRouter API), Serper.dev(for real-time web search in RAG pipeline), SQLite3, Matplotlib

Fire Weather Index prediction

[View on Github](#)

- Developed a Machine Learning classification model to predict forest fire occurrences using environmental data (temperature, humidity, wind, rain, etc).
- **Tools Used:** Python, Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Flask, HTML

CERTIFICATIONS

INTRODUCTION TO MODEL-CONTEXT-PROTOCOL - ANTHROPIC

MATHEMATICS-BASICS TO ADVANCED FOR DATA SCIENCE AND GEN AI - UDEMY