Vinod Sadula

Sadulavinod06@gmail.com | 9704405296| LINKED-IN | GitHub

OBJECTIVE

Aspiring AI Engineer and Generative AI Developer with strong foundations in Python, C, and Machine Learning. Experienced in building intelligent systems using Large Language Models (LLMs), Deep Learning, and Web Technologies. Passionate about creating real-world AI applications and scalable products by combining technical problem-solving with creativity.

EDUCATION

Bachelor of Technology – Computer Science and Engineering **2023-Present**
Marri Laxman Reddy Institute of Technology – Hyderabad CGPA: 8.9/10
Diploma in Mining Engineering **2020-2023**
Govt Polytechnic- Kothagudem CGPA-9.8/10

SKILLS

- **Programming Languages:** Java , Python , C
- **Database**: SQL, MongoDB , Firebase
- **AI/ML Libraries:** Scikit-learn, NumPy, Pandas, Matplotlib, TensorFlow, PyTorch , Matplotlib, LangChain, Hugging Face Transformers.
- **Web/App Development :** HTML, CSS, JavaScript, ReactJS, Node.js, Express.js
- **Areas of Interest**: Development , DSA
- **Core Areas** :Machine Learning, Deep Learning, Natural Language Processing (NLP), Large Language Models (LLMs), Generative AI, Prompt Engineering, Fine-tuning

PROJECTS

VR Human Anatomy Learning System (VR + LLM Integration using Unity & Python)

- A real-time **VR learning system** combining **Unity (C#)** and **Python-based LLMs** for interactive 3D anatomy exploration.
- Built an immersive **VR application** enabling users to explore and interact with 3D human organs using XR controllers.
- Integrated **OpenAI LLM** and **Text-to-Speech (TTS)** to generate real-time explanations and voice narration for selected organs.

Parkinson's Disease Detection System (Python + ML)
A real-time machine learning-based system for detecting Parkinson's disease using live voice inputs.

- Developed a prediction system that classifies Parkinson's disease based on voice recordings.
- Extracted 22 voice features using signal processing techniques to provide accurate disease predictions.
- Created a Streamlit app where users can input voice recordings or manually enter 22 features for disease detection.

Text-to-SQL using Natural Language Processing (Python + LLM)

- Designed a Text-to-SQL model that converts natural language queries into SQL commands using Python.
- Integrated transformer-based language models and prompt engineering for accurate query generation.
- Implemented SQLite backend for executing and validating generated SQL queries.
- Focused on creating a user-friendly interface for database interaction without manual SQL writing.

CERTIFICATIONS

- Introduction to Generative AI – Google Cloud (09/2025)
- Data Structures and Algorithms - Certified by SMART INTERVIEWS (06 /2025)
- Web Fundamentals - Certified by IBM. (02/2025)
- Data Analytics Essentials - Certified by CISCO. (11/2024)
- Programming Essentials in Python - Certified by CISCO. (05/2024)