Surendra Reddy

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Professional Summary

I am an AI and Backend Developer skilled in building scalable and reliable AI-driven applications and services. Proficient in Python, Java, Flask, and cloud deployment technologies. Experienced in developing chatbots, voice assistants, and full-stack Flask applications with a strong focus on performance and accuracy. Versatile in handling both backend logic and AI integrations to deliver end-to-end intelligent solutions.

Education

Bachelor of Technology in Computer Science Parul University, Vadodara,
India | Jul 2022 – Mar 2025 Relevant Coursework: Machine Learning, Data
Structures, Cloud Computing

Technical

Skills Languages: Python, Java, SQL
Frameworks & Libraries: Flask, Spring Boot, FastAPI, LangChain, Hugging Face Transformers,
AI/ML: Deep learning, Neural Networks, RAG, PyTorch, TensorFlow, Scikit-Learn, Numpy, Pandas, XGBoost
DevOps & Cloud: Docker, GitHub Actions CI/CD, Azure App Services, AWS
Databases: MySQL, SQLite, MongoDB, FAISS for embeddings
API'S: Rest API'S, Fast API'S, postman
IDE'S: vscode, pycharm, eclipse, intellij, google colab

Work Experience AI Intern Quartica | Jan 2025 – Jun 2025
Built an AI chatbot backend with Flask and MySQL, integrating RAG for context-aware responses. - Deployed containerized inference services on Azure App Services with automated CI/CD pipelines. Developed data ingestion scripts to preprocess documents, improving pipeline consistency and accuracy. Collaborated in a with a team to integrate chatbot into web portal via RESTful APIs.

Projects *AI Chatbot Platform* (Flask, MySQL, Azure, OpenAI API)
Designed user authentication and session management; implemented multi-user support with Flask-Login.Ensured high response accuracy through careful prompt engineering and RAG pipelines.Used MySQL for session management and user chat history storing, and used Azure App Services and SQL Flexible Database for deployment, using CI/CD for continuous integration from GitHub Actions.

Voice Assistant (Python, Flask, local STT/TTS, OpenAI API)
Created a voice assistant web app using local speech recognition/synthesis and uses OpenAI API for responses. Achieved reliable text to speech accuracy and natural-sounding voice output with Azure synthesizer.And convert voice answer into text using local STT tools and store them in sqlite database for user history and can viewed any time

YouTube Shorts Generator (Python, DALL-E, Gemini API, Azure voice synthesis, MoviePy)
iI built an AI-powered YouTube facts video generator that automates the entire video creation process. Used Gemini1.5 Flash via the Gemini API for fast and accurate script generation. Converted scripts to natural voice using Azure Speech Synthesizer. Generated images with OpenAI's DALL·E and combined them using python MoviePy library to produce videos.Each video consistently gained around 2k to 4k views, proving the system's effectiveness.

DeFi Wallet Credit Scoring System using XGBoost
Built a DeFi Credit Scoring model that analyzes blockchain wallet transactions to predict credit scores using XGBoost. Extracted features like loan amount, repayment history, borrow frequency from JSON-format DeFi transaction data. Achieved high prediction performance with low error metrics (MAE & MSE), enabling smarter lending decisions in Web3.

Certifications

- AWS Certified Cloud intern, 2024
- Coursera: Deep Learning Specialization by Andrew Ng, 2023

Additional

- Organized AI study group covering ML and LLM topics.
- Collaborated effectively in cross-functional teams, demonstrating strong communication and leadership to drive project success