SUMANTH GUBBALA

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Summary

As a student of computer science engineering with an interest in artificial intelligence, I'm searching for a demanding role where I can apply my full stack development and machine learning skills.

Technical Skills

Languages: Java, Python
Technologies /Frameworks: ReactJs, NodeJS, Express, GitHub, MySQL, Flask
Coursework: Data Structure and Algorithms, Object Oriented Programming, Database Management, Machine Learning

Projects

Traffic Prediction and Management System

Created a traffic prediction system that forecasts congestion and suggest alternative routes using machine learning. Created a synthetic dataset to train the model, ensuring diverse traffic scenarios. Integrated TomTom API, and OpenRouteService for real-time data processing. Used LSTM for time-series forecasting and visualized traffic patterns with Folium, optimizing route recommendations based on geospatial data.

Resume Advisor AI

Developed an AI-powered Resume Advisor web app using Streamlit, LangChain, and the Gemma model via Ollama. The application allows users to upload PDF resumes, analyzes them using vector embeddings (ChromaDB), and compares the content with job descriptions to provide personalized, actionable advice. It supports natural language questions, highlights skill-job fit, and suggests improvements for better alignment, offering a smart career advisory experience.

AI Short Video Generator

I built a n AI-powered tool that turns text prompts into short videos by generating scripts, images and voiceovers. Used Gemini API for script writing and Hugging Face API for image generation and text-to-speech. Combined the generated images and audio to create smooth, high-quality videos. I created frontend with Next.js and the backend with python, ensuring an efficient and seamless user experience.

Achievements and Certifications

CodSoft Internship (2024)

Gained hands-on experience in machine learning by developing projects such as Movie Genre Prediction and Credit Card Fraud Detection. Enhanced practical knowledge in data preprocessing, feature engineering, and model implementation.

YBL Foundation Internship (May 2024 – July 2024)

Acquired practical knowledge in developing machine learning models, achieving an 80% improvement in prediction accuracy for a CHURN-Prediction model using Logistic Regression and Random Forest classifiers.

Completed **Python Basics Certification** from **HackerRank.**

Education

SRI VASAVI ENGINEERING COLLEGE, *Tadepaligudem* September, 2022 – April, 2025
Pursuing Bachelor in Computer Science and Artificial Intelligence Engineering, *7.78 CGPA*

SRI VASAVI ENGINEERING COLLEGE, *Tadepaligudem* July, 2016 – May 2019
Diploma in Electronics and communication Engineering, *57.07%*