Pavan Dadvaiah

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OBJECTIVE

Analytical and results-oriented Computer Science graduate with a specialization in Artificial Intelligence and Machine Learning. Proficient in Python, SQL, and Java, and skilled with frameworks like TensorFlow and PyTorch. Experienced in data analytics and visualization tools such as Power BI and Matplotlib. Knowledgeable in APIs including Hugging Face and Rapid API, with expertise in regression and classification. Eager to leverage skills in a collaborative team to drive data-driven decision-making and organizational success.

KEY SKILLS

· **Programming Languages**: Python,Java,SQL
· **Machine Learning Frameworks**: TensorFlow, PyTorch, Scikit-learn
· **Data Visualization**: Power BI, Matplotlib, Seaborn
· **Data Analysis Libraries:** Pandas, NumPy
· **APIs**: Hugging Face, Rapid API, FastAPI
· **Generative AI Tools**: ChatGPT, Gemini, Hugging Face Transformers
· **Statistical Analysis**: Regression, Classification
· **Familiar Areas**: Natural Language Processing (NLP), Basic Computer Vision

INTERNSHIP

Student Project Intern
National Remote Sensing Center (NRSC), ISRO, Hyderabad, India

- Developed a React.js web application with features like authentication, profile management, and an admin dashboard, reducing page load time by 40% and increasing user retention by 25%.
- Collaborated with NRSC to align project objectives, resulting in a 20% increase in compliance and a 15% reduction in project turnaround time.

PROJECTS

Agro Sage

Crop Prediction Module Developer

- Developed a Crop Prediction module using machine learning techniques, enhancing agricultural efficiency and productivity by recommending suitable crops based on soil and weather conditions, achieving 98% accuracy and a 20% improvement in prediction efficiency.
- Trained and evaluated models including KNN, SVC, Random Forest, and Decision Tree, ensuring accuracy and reliability, and successfully deployed the best-performing model, improving overall accuracy by 15% in real-world applications.

NewsAI - AI-based News Aggregator and Summarizer

- Developed a news aggregation and summarization web application using React, Axios, and TailwindCSS, enabling users to fetch and summarize news articles from various categories with a responsive, easy-to-navigate interface, achieving 98% accuracy in summarization.
- Integrated NewsData.io API for fetching real-time news and the Article Extractor & Summarizer API (via RapidAPI) for summarizing articles, improving content relevance by 20% and enhancing user engagement by 25%.

GeminiFileWiz - AI-Powered Document Processing and Chat Interface

- Developed chatbot supporting PDF, Word, PowerPoint, Excel, and CSV file formats, utilizing Google Gemini and LangChain APIs for content summarization and intelligent question answering, improving document interaction efficiency by 40%.
- Implemented FAISS for fast document similarity searches, reducing query processing time by 50%, and built a user-friendly interface with Streamlit, facilitating seamless document uploads and interactions.

Diabetes Management - Web App for Glycemic Index Analysis

- Developed a web app for analyzing food images, providing glycemic index information and dietary recommendations, achieving 98% accuracy in food identification and 30% improvement in recommendation efficiency
- Integrated Google Generative AI and Gradio for seamless food analysis and result display, enhancing user experience and increasing overall user engagement by 25%

EDUCATION

Bachelor of Technology – AI & ML   CGPA: 7.11
(2024)
KG Reddy College of Engineering and Technology / JNTU Hyderabad

Intermediate / 12th Grade   CGPA: 8.83
(2020)
Sri Gayatri Jr. college

Secondary School Certificate (SSC)   CGPA: 8.3 (2018)
S.T Josephs High School

CERTIFICATIONS

- **Microsoft Power BI - Advanced Dashboard & Data Visualization** (Udemy,2024)
- **Machine Learning Specialization** (Coursera, 2023)
- **MySQL** (Udemy, 2022)
- **Python for Beginners** (Udemy, 2022)

ACHIEVEMENTS AND RECOGNITION

- Won Ideathone Competition by creating a farm field protection solution with LED lights to prevent wild boar attacks.
- Cleared TSPSC Preliminary Exam, demonstrating readiness to contribute to public service.