Sathwik Polineni

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Education

Aditya Engineering College   2021 - 2025
B. Tech in Electronics and Communication Engineering
Relevant Course Work:

- Arduino Programming (C++), Internet of Things and Linux based Raspberry Pi Operations on Machine Learning Project "Automatic Number Plate Recognition System".

Experience

vedasis analytics   Feb. 2024 - Present
Data Science Intern   *Python, SQL, Machine Learning, OpenCV, Google Cloud*

- Currently working on developing a internal SaaS tool for the company.
- Improving recommendation accuracy by building ML models for the SaaS tool.

Technical Hub   Jun. 2023 - Jul. 2023
Python Developer Intern   *Python, SQL, Django, Git, GitHub*

- Developed a Movie Recommendation System during a Python internship.
- Improved recommendation accuracy by 25% through careful algorithm adjustments.
- Spearheaded the implementation of ChatGPT as the primary project assistance tool, demonstrating self-reliance and resourcefulness; streamlined workflow, saving 10+ hours per week and increasing team efficiency by 25%.

Projects

JARVIS with eyes   Jan. 2024 - Present
AI with vision.   *Node JS, TypeScript, JavaScript, HTML, CSS, Vercel*

- A GenAI project that answers users queries with help of any vision LLM through realtime image analysis from real time video streaming through webcam.

TaskTracker   May. 2024 - May. 2024
Go language based Web App.   *Go, TypeScript, ReactJS, MongoDB, ChakraUI*

- Developed a robust to-do application integrating React with TypeScript for the frontend and React Query for efficient data fetching.
- Implemented a Go-based backend, complemented by MongoDB for database management and ChakraUI to ensure a sleek and user-friendly interface.

Koach AI   Jan. 2024 - Jan. 2024
AI-Powered Personal Coach for study.   *Python, OpenCV, RAG, LangChain, Streamlit*

- A personal AI Assistant developed using open source llms like MistralAI, OPENAI and GEMINI for Multiple usecases like RAG with PDFs and Image Analysis and Voice Recognition like Jarvis.

Wildfire Prediction and Surveillance   Aug. 2023 - Oct. 2023
Nasa Space Apps Hacakthon Project   *Python, TensorFlow, React, API, Drone Technology, Github*

- Advanced Fusion: AI, drones, and satellites unite, delivering 98% accuracy in wildfire detection.
- Real-time Integration: Combine satellite and drone data seamlessly for swift wildfire identification.
- Strategic Surveillance: Enhance disaster response with our advanced system for efficient wildfire monitoring.

Achievements and Extra Curricular

- AWS Certified Cloud Practioner.
- Linux and Networking Essentials Certified by Cisco.
- NASA SPACE APPS Challenge 2023 National Winner.
- Awarded Scholarship by Coding Ninjas to take the course DSA with C++ and got free goodies from them.
- Trained many students of Robotics Club Aditya on python and ml under my captaincy, also conducted workshop for students on Tiny-ML as a part of club activities.

Skills

Languages:
   Python, HTML, CSS, JavaScript, TypeScript, SQL

Technologies & Tools:
   Git, GitHub, Linux, AWS, AI, Machine Learning, Reactjs, MongoDB, Nodejs