ANKUR M VASANI

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EDUCATION

B.Tech in Computer Engineering, SVKM's Dwarkadas J. Sanghvi College of Engineering 2024 - 2027
Diploma in Information Technology, SVKM's Shri Bhagubhai Mafatlal Polytechnic 2021 - 2024

EXPERIENCE

Adani Power Jun 2023 - Jul 2023

- Developed a responsive web platform using React.js and Node.js, improving accessibility and UI efficiency.
- Conducted performance testing and debugging, reducing system errors by 25%, leading to faster response times.

SKILLS

Programming Languages & Frameworks: Python, Java, C++, C, Flask, FastAPI, React.js, Node.js, OpenCV.
Tools: YOLO, LangChain, LangFlow, Generative AI, Figma.
Cloud & DevOps: AWS, GCP, Docker, Postman, Git, GitHub.
Databases: MySQL, MongoDB, SQLite, Firebase.

PROJECTS

Text2SQL Generator: Built an NLP-powered system that converts natural language queries into SQL statements, streamlining database interactions. Integrated schema file uploads for dynamic query generation, boosting efficiency by 30%. Live Demo
StockerBot: Built a Telegram stock assistant with real-time tracking, AI recommendations, and market analysis. Used async processing for instant alerts and deployed on AWS for scalability. Telegram
Opportune: Developed an AI-driven career guidance platform using Generative AI and ML, featuring dynamic roadmaps, personalized recommendations, resume analysis, and AI-based mock interviews. Implemented ML filtering for jobs, hackathons, and events, boosting engagement by 40%. GitHub
CyclePro: Developed an AI-powered real-time road hazard detection system to enhance cyclist safety. Utilized YOLO and Computer Vision to detect obstacles and risky driving behavior, with real-time alerts via a mobile app. GitHub
FridgeMate: Created an intelligent food management system utilizing Object Detection and ML to suggest recipes, predict shelf life, and automate shopping lists, improving household efficiency. GitHub
Driver Behavior Analysis: Developed a real-time driver monitoring system using OpenCV, YOLO, and Flask. Features include drowsiness, smoking, and accident detection, with automated emergency notifications, enhancing road safety.
Voice Cloner: Implemented a custom voice cloning solution using Tacotron 2. The system includes voice recording, transcription, preprocessing, metadata editing, and training for high-quality voice synthesis. GitHub

PUBLICATIONS

Revolutionizing Traditional Supermarkets: Enhancing Efficiency, Security, and Customer Satisfaction
Published at **ACM IC3-2024**, *University of Florida*. [Read Here]
New Frontier in Machine Learning: Home Food Management using IoT & Object Detection
Published at **IEEE ICICN-2024**. Read Here]

ACHIEVEMENTS

- 1st Runner-Up, VJTI TechnoVanza Hackathon 2023
- Technical Head, LVB Revolution 2023-2024