ANKUR M VASANI

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OBJECTIVE

Innovative IT professional pursuing B.tch in Computer Engineering from SVKM's Dwarkadas J Sanghvi College of Engineering Diploma from SVKM's Shri Bhagubhai Mafatlal Polytechnic and hands-on experience from an internship at Adani Power. Proficient in Python, React, Node, Flask, and machine learning, with a strong focus on responsive web and app development. Published 2 research papers. Dedicated to applying technical skills and creative solutions to drive excellence in tech environments.

EDUCATION

B.tech in Computer Engineering **2024 - 2027**
SVKM's Dwarkadas J. Sanghvi College of Engineering

Diploma in Information Technology **2021 - 2024**
SVKM's Shri Bhagubhai Mafatlal Polytechnic

SKILLS

- **Technical:** C, C++, Java, Python, PHP, C#, React, Node, Express, Flask, OpenCV, YOLO, Streamlit, Tensorflow, Flutter, Firebase, MySQL, MongoDB.
- **Tools:** Git, GitHub, Roboflow, Postman, Jupyter, Figma.

EXPERIENCE

Adani Power *Dahanu, Maharashtra*
Web Developer June 2023 - July 2024

- Spearheaded the development of a responsive website using React and Node.js, improving user accessibility.
- Collaborated with cross-functional teams to integrate backend services with front-end interfaces, ensuring seamless data flow and user experience.
- Conducted performance testing and debugging, resulting in a 25% reduction in system errors.

JP Morgan Chase & Co. *Remote - Apprenticeship*
Corporate Analyst Development Program July 2024 - August 2024

- Completed a job simulation focused on understanding the Corporate Analyst Development Program at JP Morgan Chase & Co.
- Built a visualization dashboard using Tableau
- Documented a business process and identified and communicated opportunities for improvement
- Developed a PowerPoint presentation to communicate key ideas and talking points and tell a compelling story

PUBLICATIONS

Revolutionizing Traditional Supermarkets: A Comprehensive Solution for Enhancing Efficiency, Security and Customer Satisfaction
ACM's Sixteenth International Conference on Contemporary Computing (IC3-2024)
Jaypee Institute of Information Technology and University of Florida August 2024

New Frontier in Machine Learning: Revolutionizing Home Food Management using IoT and Object Detection
IEEE's 2024 12th International Conference on Information and Communication Networks (ICICN)
Thakur College of Engineering Febuary 2024

PROJECTS

Opportune (Hackathon Winning Project): Opportune is an innovative platform that leverages Generative AI and Machine Learning to support students and professionals in advancing their learning and career paths. Ranging from personalized dynamic roadmaps including recommendations for courses, hackathons, projects, Resume analyser, Hybrid Filtering Techniques, to AI enabled voice based mock interviews, Opportune got it all.

Text2SQL: Developed a web-based application leveraging Google's Generative AI to convert natural language queries into structured SQL statements. The tool allows users to upload SQL schema files in various formats and interactively generate relevant SQL queries, enhancing database management and query optimization. This project showcases my skills in full-stack development, natural language processing, and AI integration. (Try it here)

EZfix: EZfix is an innovative platform designed to streamline service requests and management within housing societies and localities. The system caters specifically to residential communities by providing a user-friendly interface for both service providers and customers, ensuring efficient service delivery and management. Frontend made with React + Vite, backend based on Flask and MySql. (Trying with Spring Boot and Hibernate)

Personal Portfolio Website: Superheaded and developed a Personal portfolio website to showcase my skill, projects, publicatiosns etc Made with React.js + Vite, hosted on Netlify (Try it here)

FridgeMate: An innovative Intelligent Refrigerator System that leverages the power of Object Detection and Machine Learning to revolutionize home food management. The system's Object Detection capabilities enable automatic scan of internal contents, providing an accurate inventory of stored items. Utilizing machine learning algorithms, the system then suggests recipes based on the scanned items. Furthermore, it predicts the shelf life of products and alerts the user through a mobile app. Additionally, the system automates the creation of frequently used item lists, facilitating seamless online shopping. This integrated approach offers a smart, efficient, and user-friendly solution for organizing, planning, notifying and optimizing household food management, promising to enhance convenience and reduce wastage.

Driver Behaviour Analysis: (VJTI Hackathon Winner Project) Made a real time driver behaviour analysis model based on OpenCV, YOLO, flask and IoT camera device. Capable to detect Drowsiness, Smoking, Accident Detection, Seat Belt Detection. It consists of a mechanism to automatically detect accident and send a emergency message to nearest hospital, family members and emergency services.

Chartter: Chartter is a .csv/.xls file to graph or charts converter. It comprises React.js at the frontend and Python Flask at the backend. It can convert the files to line graph, scatter plot or bar graph seamlessly on the go.

EXTRA-CURRICULAR ACTIVITIES

- 1st runners up at VJTI TechnoVanza Hackathon
- Technical Paper Presentation at Tantra Utsav 2024 at Thakur Polytechnic, Kandivali (February 2024)
- Technical Head for LVB Revolution 2023,2024