KARTIKEY VISHWAKARMA

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Education

VIT Bhopal University, BTech in Computer Science & Engineering   October 2022 – Present
• GPA: 9.07/10
Central Hindu Boys School (B.H.U Varanasi), XII   July 2019 – Sep 2022
• Percentage: 81.4

Experience

RAJASTHAN POLICE HACKATHON
• **Finalist** in Rajasthan Police Hackathon 1.0, organized by **RACCAM**, selected from 9,000 teams.
• Developed an **OpenCV**-based system for **blockage** and **displacement detection**, improving surveillance.
• Improved operational efficiency by **25%** and data accuracy by **35%**, strengthening law enforcement capabilities.

HACKOTHSAVA 2024
• **Finalist** in **Hackothsava 2024**, a premier national hackathon by SVITM, securing a top 60 spot out of 500 teams.
• Developed a real-time accident detection system logging data with attributes like Camera ID, location, severity and accident count, achieving **95%** detection accuracy.
• Enhanced data visualization with correlation analysis and **geospatial heatmaps**, boosting efficiency by **30%**.

Projects

Yapster:Yap about Everything   Demo Link   GitHub
• Developed a **real-time messaging application** using the **MERN stack** and **Socket.IO**, enabling instant text/image messaging and real-time online/offline status updates.
• Integrated **Cloudinary** for seamless image storage and **DaisyUI** for theme customization, providing users **with 32 themes** for a personalized and engaging experience.
• Designed and implemented **secure user authentication** (signup, login, logout) using **JWT** and efficiently managed user data and messages with **MongoDB**.
• Implemented features like **online user filtering**, **profile picture updates**, and **real-time notifications** for enhanced user interaction.

NurtureWise Agro   Demo Link   GitHub
• Developed NurtureWise Agro using Streamlit, for crop disease detection, achieving **90%+ accuracy**.
• Integrated real-time AI inference for disease detection, providing actionable insights with high confidence levels and **reducing crop loss risks** by **40%**.
• Designed a yield loss analysis module, calculating revenue loss and post-loss income, while linking farmers to disease-specific solutions and **fertilizer recommendations** for sustainable agriculture.

DeFi App (Bit Bank)   GitHub
• Designed a DeFi application on Dfinity ICP using **Motoko**, for efficient transactions.
• Implemented seamless withdrawal and top-up functionality, enhancing user convenience and accessibility, while ensuring scalable decentralized financial operations.
• Delivered a reliable DeFi solution, streamlining decentralized operations and boosting transaction efficiency by **30%**, ensuring faster and more secure financial activities.

Skills

Languages: C++, Python, JavaScript, Motoko
Frameworks, Libraries & Databases: React,Express, Node.js, Bootstrap,DaisyUI, MongoDB
Cloud & Hosting: Google Cloud Platform , Cloudinary

Certifications

• Google Cloud Skill Badges
• Applied Machine Learning in Python
• Microsoft AI Skill Challenge

Extracurriculars

PR Team Lead, Cisco Community – VIT Bhopal   Aug 2022 – Aug 2024
•Organized **workshops, hackathons (CODEX), and events** to promote Cisco technologies.
•Managed **social media and branding**, increasing online engagement.
•Collaborated with **faculty and industry professionals** for knowledge-sharing initiatives.