

KARTIKEY VISHWAKARMA

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Education

- VIT Bhopal University**, BTech in Computer Science & Engineering Oct 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

NurtureWise Agro

[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.

SMART-CAM SECURE

[GitHub](#)

- Engineered **geo-tagging** for privately owned cameras, improving tracking, surveillance, and vehicle monitoring.
- Developed a multithreading-based system for real-time camera blockage and displacement detection, improving responsiveness and security.
- Integrated **Vonage API for SMS alerts**, to the camera owners and law enforcement during incidents.

Skills

Languages: C++, Python, JavaScript, Motoko

Frameworks, Libraries & Databases: React, Node.js, Bootstrap, MongoDB

Cloud & Hosting: Google Cloud Platform

Certifications

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

Extracurriculars

PR Head, 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.