KARTIKEY VISHWAKARMA

[kartikey752@gmail.com](mailto:kartikey752@gmail.com) — +91 6393400030 — [LinkedIn](https://linkedin.com/in/kartikey-vishwakarma75) — [Github](https://github.com/KARTIKEY752)

# 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 **RACAM**, 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](https://github.com/KARTIKEY752/NurtureWise--Agro)

* 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](https://github.com/KARTIKEY752/BitBank)

* 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](https://github.com/KARTIKEY752/RJPOLICE_HACK_634_Advitya_6)

* 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](https://www.cloudskillsboost.google/public_profiles/4d9b6204-d249-40cb-8919-34ca6ae39cab)
* [Applied Machine Learning in Python](https://drive.google.com/file/d/1-jtzWyx3ITIWe7szRX--qfTLqdSFFpiw/view)
* [Microsoft AI Skill Challenge](https://drive.google.com/file/d/1gX_3jfKCxg0woGYheLJhM1ZtPfCKXEjm/view)

# Extracurriculars

**PR Head**, Cisco Community VIT Bhopal Aug 2023 – Aug 2024