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 **RACAM**, selected from 9,000 teams
* Built an **OpenCV**-based camera monitoring system for blockage and displacement detection, enhancing 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** [*NurtureWise-Agro*](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.
* 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)**  [*Bit Bank*](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**  [*SMART-CAM SECURE*](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

# Certification

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