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

[**Yapster: Yap about Everything**](https://yapster-yap-about-everything.onrender.com/) [GitHub](https://github.com/KARTIKEY752/Yapster-Yap-about-Everything)

* 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** [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.

# 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 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.