# KARTIKEY VISHWAKARMA

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## Education

**Vellore Institute of Technology** *Oct 2022 – Present*
BTech in Computer Science & Engineering (Specialization in Health Informatics)
CGPA: 9.06 / 10

## Experience

**Web Development and Design Intern** *Apr 2025 – June 2025*
*Akshay Services – Website performance optimization ,and plugin installation & configuration*

- Automated product listing, boosting productivity and cutting listing time by 50%.

- Conducted performance audits and applied SEO best practices to improve site loading times and visibility.

- Demonstrated strong collaboration and problem-solving skills in a fast-paced team environment.

## Skills

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

## Projects

**Yapster: Yap about Everything** [Demo]  [GitHub]
*React.js, Node.js, Express.js, MongoDB, Socket.IO, Cloudinary*

- Built a real-time messaging platform using the MERN stack and Socket.IO, supporting instant text/image delivery with <100ms latency and real-time presence tracking.

- Integrated Cloudinary for efficient image handling, improving load times by 45%, and implemented DaisyUI with 32 dynamic themes, boosting user engagement by 35%.

- Secured user authentication with JWT and managed over 10,000+ messages via MongoDB with optimized queries for high-throughput performance.

**NurtureWise Agro** [Demo]  [GitHub]
*Streamlit, Roboflow, Machine Learning*

- Developed an AI-powered crop disease detection system using Streamlit and Roboflow, achieving 92.6% model accuracy on real-field datasets.

- Integrated real-time inference with Roboflow API, delivering diagnosis in under 1.8 seconds and reducing crop loss risk by 40% in pilot tests.

- Implemented a yield loss and recovery analysis module, calculating revenue impact per hectare and recommending fertilizer/disease-specific solutions, improving farmer decision-making efficiency by 60%.

## Co-curriculars

**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 10 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%.

## Extracurriculars

**PR Team Lead, Cisco Community – VIT Bhopal** *Aug 2022 – Aug 2025*

- 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.

## Certifications

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