



# Ayush Kakkar

Delhi, India

☎ +91 8920815655 • ✉ [kakkarayush0@gmail.com](mailto:kakkarayush0@gmail.com) •  [LinkedIn](#) •  [GitHub](#)

## EDUCATION

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**B.Tech. - Computer Science**

Vellore Institute of Technology

2022 -2026

**CGPA 8.68/10**

**Vishwa Bharati Public School, Dwarka**

**May 2022**

**12<sup>th</sup> Grade**

**Percentage: 74%**

## SKILLS

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**Languages & Frameworks:** Java, Python, JavaScript, HTML, CSS, Flask, FastAPI

**Tools & Technologies:** Git, GitHub, VS Code, IntelliJ IDEA, Docker, REST APIs, MySQL, AWS

**Libraries & Ai Services:** OpenCV, TensorFlow, Kling AI Model

## PROJECTS

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**Video-Gen: AI video generation and scoring system** |  [Python](#), [React.Js](#), [Gemini API](#), [Kling model](#)

- Developed an end-to-end AI video generation system using FastAPI and React, enabling automated content creation with customizable parameters.
- Leveraged Gemini Flash 2.0 for intelligent video analysis, enhancing metadata accuracy by 25%.
- Trained and fine-tuned state-of-the-art models (Kling v1.6, ReCraftv3) for high-quality video and image synthesis.
- Engineered a multi-stage evaluation pipeline with 6 scoring metrics, improving output quality consistency by 40%.
- Built an intuitive React + Tailwind CSS dashboard for video generation and performance analytics, reducing user onboarding time by 30%.
- Configured Cloudinary for optimized video storage and processing, cutting rendering delays by 50%.

**Niti-Nirman: AI-Driven Scheme Recommender Platform** |  [Python](#), [TensorFlow](#), [Supabase](#), [Typescript](#), [Gemini](#)

- Architected an ML-based recommendation engine to match users with government schemes using demographic and document data, improving relevance by 40%.
- Established a blockchain-based document storage system to ensure tamper-proof data security and instant verification.
- Integrated Gemini API to power an AI chatbot, delivering personalized scheme suggestions and boosting user interaction by 35%.
- Optimized real-time API workflows for seamless scheme retrieval and validation, reducing latency by 30%.

**Cognito: Facial Recognition Based Attendance System** |  [Python](#), [HTML](#), [CSS](#), [JavaScript](#), [React Js](#), [Firebase](#)

- Built an OpenCV/Python-based facial recognition system with 95% accuracy, automating and streamlining real-time attendance tracking in schools.
- Integrated Firebase for secure real-time synchronization, reducing attendance data retrieval time by 50%.
- Created a responsive React dashboard with analytics, increasing overall user engagement by 60%.

## ACHIEVEMENTS & EXTRA CURRICULAR ACTIVITIES

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- **Led a team to 2nd Runners-up at National Hackathon by OnlineSale.ai** — Secured 3rd rank among 200+ teams by building an AI-powered video ad platform using React and FastAPI that automates professional video creation from product details.
- **Smart India Hackathon 2025 Internal Round Finalist** — Achieved Top 75 in Smart India Hackathon 2025 for an innovative civic-tech application.
- **Core Team Member at VIT's Software Development Club** — Volunteered in hackathons and webinars that upskilled 300+ students.

## CERTIFICATIONS

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- **Oracle** : Generative AI Professional
- **SmartBridge** : MERN Full Stack Development with MongoDB
- **IBM** : Devops, Agile & Design Thinking