

Ayush Kakkar

Delhi, India

📞 +91 8920815655 • 📩 kakkarayush0@gmail.com • 💬 LinkedIn • 🐾 GitHub

EDUCATION

B.Tech. - Computer Science
Vellore Institute of Technology

2022 -2026
CGPA 8.68/10

Vishwa Bharati Public School, Dwarka

May 2022

12th Grade

Percentage: 74%

SKILLS

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

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

- **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

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