

Ayush Kakkar

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Education

Vellore Institute of Technology, Bhopal

B.Tech. in Computer Science Engineering

Sept 2022–Current

CGPA: 8.68

Vishwa Bharati Public School, Dwarka

12th Grade

May 2022

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, NumPy, Kling AI Model

Projects

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

Live Project

- Developed an end-to-end AI video generation system using FastAPI and React, enabling automated content creation with customizable parameters.
- Enhanced video quality and analysis by leveraging and fine-tuning state-of-the-art models (Kling, ReCraft) and integrating Gemini AI, which improved metadata accuracy by 25%.
- Engineered a robust multi-stage evaluation pipeline with 6 scoring metrics, significantly increasing output quality consistency by 40%.
- Optimized the entire system's performance by configuring cloud-based media storage and processing, which drastically reduced video rendering times for end-users.

Niti-Nirman: AI-Driven Scheme Recommender Platform (Python, TensorFlow, Supabase, Typescript, Gemini)

Github

- Architected an ML-based recommendation engine to match users with government schemes using demographic and document data, improving relevance by 40%.
- Established a secure, blockchain-based document storage system to ensure data integrity and enable instant verification for users.
- Boosted user engagement by integrating a Gemini AI chatbot for personalized support and optimizing API workflows for faster, real-time results.

Cognito: Facial Recognition Based Attendance System (Python, HTML, CSS, JavaScript, React Js, Firebase)

Github

- Built an Python/OpenCV-based facial recognition system with 95% accuracy, automating attendance logging.
- Integrated Firebase for real-time data synchronization, which significantly reduced data retrieval times and improved system responsiveness.
- Created a user-friendly React dashboard that drove a significant boost in user engagement.

Experience

AI Research Intern- Planto.ai

Feb 2025 - April 2025

- Designed and delivered 8+ PowerPoint presentations, translating complex research findings into actionable
- Streamlined project workflow, enhancing team productivity by 20% through effective collaboration and knowledge sharing.

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.

Certifications

Oracle: Generative AI Professional

SmartBridge: MERN Full Stack Development with MongoDB

IBM: Devops , Agile & Design Thinking