



Ayush Kakkar

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EDUCATION

B.Tech. - Computer Science

VIT Bhopal University

2022 -2026

CGPA 8.58/10

Class 12th - CBSE

Vishwa Bharati Public School, Dwarka

2021 – 2022

Percentage – 73.6%

Class 10th – CBSE

Vishwa Bharati Public School, Dwarka

2019-2020

Percentage – 74.8%

SKILLS

Programming Languages: Java, Python, JavaScript

Web Technologies: FastAPI, FastHTML, Flask, TypeScript, Node.js, Express.js, EJS, React.Js

Databases: MongoDB, MySQL

Cloud Platforms: AWS, GCP

DevOps Tools: Git, GitHub, Cloudflare, Docker

Machine Learning: Fast.ai, NumPy, SciKit Learn, OpenCV, KNN Algorithm

PROJECTS

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

- Built an OpenCV/Python facial recognition system with 95% accuracy, automating attendance tracking in schools.
- Integrated Firebase for real-time sync, reducing data retrieval time by 50%.
- Created a React dashboard that increased user engagement by 60%.


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%.

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%.

ACHIEVEMENTS

- **Secured 3rd rank** among 106 teams in OnlineSales.Ai's national hackathon by building an AI-powered video ad platform (React/FastAPI) that automates professional video creation from product details, winning ₹30,000 and reducing production time by 80%. [Link](#) 

POSITION OF RESPONSIBILITY

- Volunteered as Core Team Member at VIT Bhopal's Software Development Club, organizing hackathons and webinars that upskilled 300+ students.

CERTIFICATIONS

- **Coursera** : HTML, CSS, and Javascript for Web Developers
- **SmartBridge** : MERN Full Stack Development with MongoDB
- **IBM** : Devops, Agile & Design Thinking