Ayush Kakkar

Bhopal, India
+91 8920815655• ayushkakkar2022@vitbhopal.ac.in• LinkedIn• GitHub

EDUCATION

BTech - Computer Science (minor in Cloud Computing and Automation) *2022 -2026*
VIT Bhopal University **CGPA 8.55/10**

Class 12th - CBSE *2021 – 2022*
Vishwa Bharati Public School, Dwarka

SKILLS

Programming Languages: Python, JavaScript, Java
Web Technologies: FastAPI, FastHTML, Flask, TypeScript, Node.js, Express.js, EJS, React.Js
Databases: MongoDB, SQLite, MySQL
Cloud Platforms: AWS, GCP
DevOps Tools: Git, GitHub, Cloudflare, Docker
Machine Learning: PyTorch, Fast.ai, NumPy, SciKit Learn, OpenCV, KNN Algorithm

PROJECTS

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

- Developed a machine learning based face recognition attendance system utilizing OpenCV, Python, and Firebase to automate attendance tracking and enhance accuracy in educational settings
- Implemented face detection system using OpenCV and Python face recognition library, achieving 95% accuracy.
- Optimized data management by integrating Firebase, enabling real-time updates and streamlining attendance record access, slashing data retrieval time by 50%
- Designed a responsive web interface using HTML, CSS, JavaScript and React for administrators and users to manage attendance records and check status, increasing user engagement by 60%.

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

- Designed a recommendation system using machine learning models to match users with relevant government schemes based on their demographic and document details.
- Implemented blockchain-based document storage for secure and verifiable user data management.
- Integrated AI for personalized scheme suggestions and an interactive chatbot to assist users with Gemini API Ensured seamless interaction with APIs for real-time scheme retrieval and validation.

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

- Built an AI video generation and scoring system using Python, FastAPI, and React
- Integrated Gemini Flash 2.0 for automated video content analysis
- Used SOTA models like Kling v1.6 and ReCraftv3 for video and image generation
- Implemented multi-stage scoring pipeline with 6 evaluation metrics
- Designed frontend UI with React and Tailwind CSS for video generation and scoring
- Integrated Cloudinary for video storage and processing

ACHIEVEMENTS

- **Secured 3rd place** among 106 teams in onlinesales.ai's month long national hackathon from Dec 24- Jan 25, developing an automated video ad generation platform using React and FastAPI that enables companies to create professional video advertisements by inputting product details, winning a cash prize of 30,000.

POSITION OF RESPONSIBILITY

•Core team Member at Software Development club, VIT Bhopal Organized Hackathons and webinars for training over 300 students

CERTIFICATIONS

- **Coursera:**HTML, CSS, and Javascript for Web Developers