

AYUSH PANDEY

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ayush003.vercel.app

Education

- VIT Bhopal University, Bhopal, MP** Expected May 2026
B.Tech in Computer Science GPA: 8.56 / 10.0
- Lucky Bal Niketan, Jodhpur** April 2020 & April 2022
Class 10, Class 12 89.80%, 80.00%

Work Experience/Contributions

- Omdena** September 2023 – December 2023
Collaborator – AI Developer
 - Collaboratively worked in a global team of seventy-five members to build a Python-based BRTS chatbot hosted on Hugging Face.
 - Efficiently integrated a KD-Tree algorithm to optimize real-time nearest bus stop detection from user coordinates.
 - Streamlined Bhopal BRTS data flow via scalable vector DBs, then containerized and automatically deployed with Docker.
- Visakwik (Startup)** March 2025 – Present
Frontend & AI Integration Developer
 - Collaborated with backend and AI teams to build an AI-powered visa automation platform that applies for visas across 35+ countries via a browser extension.
 - Authored and assessed a scalable user interface in Next.js using MUI, improving usability and reducing user friction.
 - Integrated automation flows between a Flask backend and browser extension to seamlessly manage visa form submissions.

Projects (Motivation Innovate to Impact and Learn)

- Quant Calendar** (*Next.js, TypeScript, Tailwind CSS, Neon, Drizzle ORM*) quantcal.vercel.app July 2025
 - Built a financial platform with JWT authentication, Neon serverless Postgres, and Drizzle ORM.
 - Features interactive calendar, trading dashboard with real-time candlestick charts, and Binance-powered market widgets.
 - UI with shadcn/ui, reusable React components, user profile management, and customizable settings.
- Grocify Mart (Multivendor E-Commerce)** (*Next.js, Drizzle ORM, Vercel AI SDK*) grocifymart.vercel.app November 2023
 - Developed a Next.js 14 frontend with 95+ Lighthouse score and 40% faster load times.
 - Implemented AI support with Vercel AI SDK and Gemini, automating user workflows.
 - Built secure, multi-tier authentication and role-based access with Drizzle ORM.
- AI Bank Recommender** (*FastAPI, LangChain, Streamlit, Gemini, MySQL*) bankbaba.streamlit.app March 2024
 - Built dual-chain LLM architecture for personalized banking product recommendations.
 - Full-stack solution with FAISS vector search and Tesseract OCR onboarding.
 - Automated data pipeline for real-time analysis and recommendations.
- Fraud Detection AI System** (*Spring Boot, Kafka, MongoDB, OpenAI Embeddings*) Ongoing
 - Processed 2–3 transactions/sec with 96% detection accuracy using Kafka.
 - Real-time fraud detection with OpenAI Embeddings and MongoDB vector storage.
 - Automated synthetic data generation and event-driven microservices with Docker/Kubernetes.

Technical Skills & Relevant Coursework

- Languages & Frameworks:** Java, Python, C++, JavaScript, TypeScript, Next.js, React, Angular, Spring Boot
- Databases & Tools:** PostgreSQL, MySQL, MongoDB, Git, VS Code, Hugging Face, Docker, Gemini, Kafka, Redis, OpenAI, FAISS
- DevOps & Cloud:** Docker, Kubernetes, Vercel, AWS, GCP, CI/CD, serverless, Neon, cloud deployments

Certifications

- Google IT Support Professional Certificate (Coursera)
- Cloud Computing (NPTEL) – Silver, 75% score

Profiles & Achievements

- Leetcode: **600+ problems solved**, **Guardian badge** holder, 9th globally in Weekly Contest 437.
- Qualified through two rounds in Asyncs Reimagine hackathon to rebuild and animate ISRO and Bluestone [ISRO](#) & [Bluestone](#)

Leadership & Extracurricular

- Linpack Club, VIT Bhopal (President)** November 2023 – Present
 - Managed and scaled a team from ten to fifty to organize three large-scale events—including one hackathon and three guest lectures—for over five hundred attendees, overseeing fund management, PR, and all event logistics.