Ayush Pandey

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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 (Bhopal route transit system) 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 Docker deployed.

Visakwik (Startup) — March 2025 – Present
Frontend & AI Integration Developer
- Collaborated with backend and AI teams to build an AI-powered visa automation platform (SAAS) that applies for visas.
- 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, Recaptcha, Redis, Binance API, Postgres, uploadthing S3)* 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, HF , Vercel AI SDK)* Grocifymart.vercel.app — November 2023
  - Developed a modern Next.js 14 frontend with 95+ Lighthouse score and achieved 40% faster load times.
  - Implemented advanced AI support with Vercel AI SDK and Gemini, automating complex user workflows.
  - Built secure, multi-tier authentication and robust role-based access with Drizzle ORM, ensuring data privacy.

- **Angular & Spring Boot Blog App** *(Angular, Spring Boot, MySQL, WebSocket)* server link — May 2023
  - Implemented simple MySQL CRUD for posts and comments with an Angular frontend and Spring Boot REST API, maintaining clear service/repository separation.
  - Added real-time likes and comment updates via WebSocket; persisted interactions in MySQL (no JWT/auth integration).
  - Features include image upload, pagination, optimistic UI updates for likes.

- **AI Bank Recommender** *(FastAPI, LangChain, Streamlit, Gemini, MySQL)* bankbaba.streamlit.app — March 2024
  - Built dual-chain LLM architecture for highly personalized banking product recommendations,customer satisfaction.
  - Full-stack solution with FAISS vector search and Tesseract OCR for seamless onboarding and document processing.
  - Automated data pipeline for real-time analysis and accurate recommendations, reducing manual intervention.

- **Fraud Detection AI System** *(Spring Boot, Kafka, MongoDB,Embeddings)* — Ongoing
  - Processed 2–3 transactions/sec with 96% detection accuracy using scalable Kafka pipelines, minimizing financial risk.
  - Real-time fraud detection with OpenAI Embeddings and MongoDB vector storage integration.
  - Automated synthetic data generation and event-driven microservices using Docker/Kubernetes, supporting robust testing and deployment.

Technical Skills & Relevant Coursework

- **Languages & Frameworks**: Python, Go, Java, Sql, NoSQL, Langchain   • **Tools & Cloud**: GCP, Docker, AWS,Azure

Certifications

- Google IT Support Professional Certificate (Coursera)   • Oracle AI Foundations Associate (Oracle University)

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.