

AYUSH PANDEY

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Education

VIT Bhopal University, Bhopal

2022 - 2026

B.Tech Computer Science & Engineering

Grade/CGPA: 8.56/10

Lucky Bal Niketan Sr. Sec. School, Jodhpur

2020 - 2022

Intermediate XII/High School X

Grade/CGPA: 80.2% ; 89.80%

Technical Skills

Languages: C++, C, Java, Python, TypeScript

Web Technologies: React, Angular, Node.js, HTML/CSS, Spring Boot

Databases & ORMs: MySQL, MongoDB, PostgreSQL, Prisma, Drizzle, ORM

Core Concepts: Object-Oriented Programming, Operating Systems, SDLC, Testing, Dataset Analysis

CI/CD: Docker, Git, RESTful APIs, Kafka, Upstash Redis, WebSockets, Jest, Postman, Linux, AWS, GCP

Achievements

- **Guardian at Leetcode:** 600+ problems solved, **Guardian** badge holder, 9th globally in Weekly Contest 437.
- **Omdena AI:** Contributor to Bhopal Route Transit System Chatbot project, integrating KD-Tree for real-time.
- **Asyncs Reimagine Hackathon:** Qualified through two rounds, rebuilding and animating ISRO and Bluestone.
- **Linpack Club President:** Organized 2 Hackathons and 3 large-scale speaker sessions/workshops (e.g., Fake currency detection using MATLAB), boosting member participation by 50% and new memberships by 30%.

Projects

Grocify Mart (Multivendor E-Commerce) | Next.js, HF, Vercel AI SDK

[Live Link](#)

- **Optimized frontend performance** to achieve a **95+ Lighthouse score** and reduce page load times by **40%** using Next.js 14 and SSR. [grocifymart.vercel.app](#)
- Integrated a **conversational AI assistant** using Vercel AI SDK and Gemini, automating **5+ key workflows** and reducing task completion time by **60%**.
- Designed a **secure, multi-tier authentication system** with Drizzle ORM, enforcing **role-based access control (RBAC)** for 4 distinct user roles.

Angular & Spring Boot Blog App | Angular, Spring Boot, MySQL, WebSocket

[Live Link](#)

- Developed a **scalable backend** by architecting a **Spring Boot REST API** with over **15 endpoints**, adhering to a strict service/repository pattern. [server link](#)
- Launched **DM chatrooms** with **personal message notifications** powered by WebSockets, keeping 500+ users engaged in real time.
- Enhanced user experience by deploying **optimistic UI updates** and **efficient server-side pagination** for seamless browsing of 1000+ posts.

AI Bank Recommender | FastAPI, LangChain, Streamlit, Gemini, MySQL

[Live Link](#)

- Elevated **personalized recommendation accuracy** by **35%** by pioneering a **novel dual-chain LLM architecture**. [bankbaba.streamlit.app](#)
- Streamlined user onboarding by automating **document analysis** with Tesseract OCR and FAISS vector search, processing time by **85%**.
- Spearheaded the creation of a **zero-touch data pipeline**, eliminating **90% of manual entry** and delivering recommendations in **under 5 seconds**.

Fraud Detection AI System | Python, Kafka, Random Forest, Scikit-learn

- Achieved **99.95% accuracy** and **0.94 ROC-AUC** by training a **Random Forest Classifier** on the ccprod dataset with optimized hyperparameters.
- Engineered a **sub-millisecond prediction pipeline** handling **10,000 TPS** with **16 parallel consumers and predictors**, processing 300 concurrent users in real-time.
- Built a **scalable Kafka event-streaming architecture** with configurable batch processing, achieving **92.77% precision** and **78.57% recall** on fraud detection.

Internships

Software Engineering Intern

Present

Kwkflowjob private limited

Remote

- Owned the **React** frontend (component architecture, routing, code-splitting); reduced median page load **20%**.
- Integrated **AI** pipelines into frontend inputs to surface **contextual recommendations**; collaborated with **backend** and **product** teams on **API contracts** and onboarding AI endpoints.
- Implemented **SEO (metadata, structured data, sitemaps)** and delivered **automation/scraping** scripts to replace manual product imports.

Certificates

Google IT Support Professional Certificate (Coursera)

Oracle Generative AI Professional (Oracle University)

AWS Certified Cloud Practitioner (Amazon Web Services training)

Certified DevOps Professional (Oracle University)