

AYUSH PANDEY

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Education

- **VIT Bhopal University, Bhopal, MP** Expected May 2026
• *B.Tech in Computer Science* GPA: 8.61/10.0
- **Lucky Bal Niketan, Jodhpur** April 2022
• *Senior Secondary (Class 12)* 80.00% / CGPA: 8.00
- **Lucky Bal Niketan, Jodhpur** April 2020
• *Secondary (Class 10)* 89.80% / CGPA: 8.98

Technical Skills & Relevant Coursework

- **Languages & Frameworks:** Java, C, C++, JavaScript, TypeScript, Next.js, React, Angular, Spring Boot
- **Databases & Tools:** PostgreSQL, MySQL, SQLite, MongoDB, Git, VS Code
- **Cloud & DevOps:** AWS, GCP, Firebase, Vercel, Redis
- **AI / ML:** Python, Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, OpenAI API, LangChain, Hugging Face Transformers, Gemini API

Experience

- **Omdena** Sep 2023 – Dec 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.
 - Significantly reduced API response time by extracting regional maps using the Osmium tool from large OSM data.
 - 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.

Projects

- **Rust Media Compressor** (*Rust, FFmpeg, Tauri*) Apr 2024
 - Designed a Rust-based compressor leveraging FFmpeg to shrink video files by seventy percent while preserving HD quality.
 - Crafted a Tauri GUI to batch process one thousand files per hour for seamless user experience.
 - Optimized codec workflows with custom Rust modules, reducing overall processing duration by forty percent.
- **Grocery Mart (Multivendor E-Commerce)** (*React, Node.js, VercelDB, Vercel AI SDK, D3.js, ApexCharts, Zustand*) Jul 2024
 - Architected a React and Node.js platform handling over one thousand daily transactions across one hundred users.
 - Implemented AI-driven chatbots resolving eighty-five percent of five hundred customer inquiries automatically via Vercel AI.
 - Enhanced SSR and lazy loading to elevate SEO metrics by twenty-five percent and trim load times by thirty-five percent.
- **Real-Time Chat App** (*Spring Boot, WebSocket, HTML/CSS/JS*) Sep 2024
 - Orchestrated a Spring Boot chat server with WebSocket support for over five hundred simultaneous user connections.
 - Implemented JWT and CSRF safeguards, reducing unauthorized access attempts by ninety-eight percent across ten thousand requests.
 - Automated CI/CD pipelines on Render, sustaining ninety-nine point nine percent uptime over six months.
- **Club Site with Certificates & Chatbot** (*Next.js, Hugging Face, Python, Google API*) [Live] Jan 2025
 - Engineered a Next.js portal to dynamically generate one thousand SSL certificates via Google API for verified events.
 - Integrated a Hugging Face chatbot answering two hundred daily queries to elevate member engagement.
 - Achieved sub-two-hundred-millisecond page loads using Tailwind CSS for five thousand monthly visits.

Certifications

- Google IT Support Professional Certificate (Coursera)
- Cloud Computing (NPTEL) – Silver, 75% score
- AWS Solutions Architect – Associate Certification Program
- MongoDB Database Administration

Profiles & Achievements

- Leetcode: 450+ solved, Guardian badge, 9th globally in Weekly Contest 437.
- GeeksforGeeks: 150+ solved.
- Qualified through two rounds in Asyncs Reimagine hackathon to rebuild and animate ISRO and Bluestone [ISRO](#) & [Bluestone](#)
- DSA: 650+ problems across platforms; strong algorithmic skills.

Leadership & Extracurricular

- **Linpack Club, VIT Bhopal** Nov 2023 – Present
• *President*
 - 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.
- **Chess.com** ([ches_Ayush_003](#)) Ongoing
• *Online Player*
 - Rapid rating: 700+; Blitz rating: 600+.