

AYUSH PANDEY

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Education

VIT Bhopal University, Bhopal, MP

Expected May 2026

Bachelor of Technology (B.Tech) in Computer Science — GPA: 8.61/10.0

Lucky Bal Niketan, Jodhpur

April 2020 & April 2022

X, XII

89.80%, 80.00%

Technical Skills & Relevant Coursework

Languages & Frameworks: C++, Java, Python, JavaScript (TypeScript, Next.js, React, Angular, Java Spring Boot)

Databases & Tools: SQL, PostgreSQL, MySQL, SQLite, MongoDB, VS Code, Git, GitHub, Docker, Cloudflare, Cloudinary

AI & Cloud Technologies: FastAPI, LangChain, RAG, Firebase, AWS

Projects

Multivendor Ecommerce Platform (GrocifyMart) | Next.js, PostgreSQL, Drizzle ORM October 2022 – Present

- Developed a **scalable multivendor ecommerce system** serving **50+ users**, **5+ farmers**, and **10+ admins** with dedicated dashboards for product management and training blog distribution.
- Integrated **AI-powered chatbots**, including a **RAG Bot** (for insights) and a **Vercel AI SDK Bot** (for complaints), automating **85%** of user queries. Designed **data visualizations** using **D3.js** and **React ApexCharts**. [\[Live Demo\]](#)
- Optimized website efficiency by implementing **lazy loading** and **server-side rendering**, reducing load time by **30%** and improving SEO rankings by **20%**.

Club Website: Serverless Event Management Platform | Next.js, FastAPI, Redis, Vercel

February 2024

- Built a **serverless event management platform** handling **500+ registrations** with **Next.js frontend** and **FastAPI backend**, deployed on **Vercel**.
- Implemented **automated certificate generation**, issuing **200+ certificates**, and **unique QR-based ticketing** for seamless event access.
- Integrated **Redis database** to track **real-time visits**, reducing API response time by **50%**. [\[GitHub\]](#) [\[Live Demo\]](#)

BRTS Chatbot for Bhopal Route Transit System | Python, NLP, LangChain, OSRM, OSM, Streamlit

July 2024

- Optimized route search, reducing response time from **5 minutes to 10 seconds**, handling **1000+ commuter**.
- Utilized **OSM data** and the **OSMium Linux tool** to map **2500+ bus stops**, improving route accuracy by **30%**.
- Implemented a **KD-tree algorithm** for efficient nearest bus stop searches, cutting computational time by **40%**.
- Created an **interactive map UI** with **real-time “Locate Me” functionality**, boosting user engagement by **60%**.

Bank Baba | FastAPI, Streamlit, MySQL, LangChain, Google Gemini

Ongoing

- Building an **AI-driven financial advisor** analyzing **10,000+ transactions** monthly to provide personalized product.
- Using **Google’s Gemini-2 Pro** and **LangChain** to improve financial insights by **35%**.
- Implementing **OCR-based bank statement processing** with **PyTesseract**, reducing manual workload by **90%**.
- Deploying **FastAPI** on Hugging Face and **Streamlit** for an interactive UI. [\[GitHub\]](#) [\[Live Demo\]](#)

Experience

Omdena AI

- Contributed to the **BRTS Chatbot** for Bhopal Route Transit System, assisting **5,000+ daily commuters**. [\[Link\]](#)

Certifications

Google IT Support Professional Certificate

Coursera

- Operating Systems and You: Becoming a Power User ([Verify](#))

Cloud Computing (NPTEL)

- IIT - Topped the course, ranking among the top 5% of students nationwide. ([Verify](#)).

Achievements

Coding Profiles

[Portfolio \(Link\)](#) | [Leetcode \(250+\) \(Link\)](#) | [GeeksForGeeks \(150+\) \(Link\)](#) | [CodeStudio \(Link\)](#)

- Leetcode** : Achieved **Guardian** badge on Leetcode top 0.9% max contest ranking of **2192**, ranked **9th globally** in Leetcode Weekly Contest 437 among 31,000 participants, and **54th** in Leetcode Biweekly Contest. Solved more than 500.
- Hackathon Achievement**: Qualified for **Round 2 of the Asyncs Reimagine Hackathon**, ranking in the **top 13%** (100/750 teams). [\[Link\]](#)

Leadership / Extracurricular

Linpack (MATLAB & LaTeX) Club

November 2023 – Present

President

VIT Bhopal University

- Led a team of **30+ members** to conduct **3+ large-scale workshops** with **150+ participants**.
- Organized hands-on sessions on **MATLAB automation**, **scientific computing**, and **LaTeX** for research paper formatting.