

AYUSH GUPTA

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EDUCATION

VIT Bhopal University

Bachelors of Technology in Computer Science and Engineering

CGPA: 8.0/10

Bhopal, India

2024 - 2028

Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Operating Systems

EXPERIENCE

Open-Source Contributor | Kubeflow Pipelines (Google / Linux Foundation)

Mar 2026 - Present

- Resolved a critical race condition in the Go API server, stabilizing ML workflow restarts and preventing pipeline crashes.
- Implemented robust retry logic for concurrent requests, significantly reducing 409 Internal Server Errors in the API.

Open-Source Contributor | DevPath

May 2026 - Present

- Implemented fault-tolerant Python JSON parsing, preventing 500 Internal Server Errors from broken data links.
- Upgraded the search engine with fuzzy substring matching, improving query accuracy within a responsive Bento Grid UI.

PROJECTS

AI Resume Builder | FastAPI, Ollama, PyMuPDF, spaCy, MongoDB, Google GenAI

[GitHub](#)

- Developed AI resume platform using Google Generative AI for ATS-optimized content drafting and formatting.
- Implemented secure user/admin ecosystem with Next-Auth (OTP logins, real-time metrics, activity auditing).
- Created seamless PDF export engine (@react-pdf/renderer) converting user data into high-fidelity documents.

RAG Chatbot | Python, LangChain, ChromaDB, FAISS

[GitHub](#)

- Built RAG chatbot used by 50+ users, processing 50+ documents with <300ms retrieval latency.
- Developed automated document ingestion pipeline (pdfjs) for text extraction, AI embedding generation, and fast retrieval.
- Designed interactive chat with Smart Command Palette and real-time Artifacts Canvas for intuitive user interactions.

System and Method of Predictive Safe Route Navigation Engine | ML, Next.js Python, Scikit-Learn, Leaflet, Geospatial APIs

[GitHub](#)

- Developed predictive navigation app for women's safety (Next.js map, FastAPI Python backend).
- Trained and deployed ML model (Scikit-learn) on crime datasets to dynamically calculate route safety scores.
- Designed low-latency spatial UI flagging high-risk zones and computing safest walking paths.

POSITION OF RESPONSIBILITY

Core Member, Technical Team | MATRIX Club, VIT Bhopal

Aug 2024

- Organized and facilitated technical workshops, coding competitions, and knowledge-sharing sessions focused on software engineering and AI/ML.
- Collaborated with student leaders to foster a culture of open-source contribution, problem-solving, and technical excellence.

SKILLS

Programming Languages:	Python, Go, Java, C++, JavaScript
Machine Learning:	Deep Learning, NLP, NLU, GenAI, RAG, LLMs, Information Retrieval
Frameworks & Libraries:	PyTorch, Scikit-learn, LangChain, spaCy, Ollama, FastAPI, Next.js
Databases:	PostgreSQL, MongoDB, ChromaDB, FAISS, Supabase
Software Engineering:	DSA, OOP, REST APIs, Distributed Systems, Git

ACHIEVEMENTS

- Selected as a Software Engineering Intern at **HackerRank**.
- Open-source contributor to Kubeflow Agent, Pipelines and Katib under Google and the Linux Foundation.
- Filed a patent application through VIT Bhopal University for an innovative technology solution (under review).
- Earned certifications in **Applied Machine Learning** (University of Michigan) and **Generative AI** (Google Cloud).
- Successfully completed the ServiceNow Virtual Internship and **#T20DSACHallenge**.