

# Mohan Chaturvedi

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## Education

**VIT Bhopal University**, B.Tech in Computer Science and Engineering (Specializing in Cloud Computing and Automation) 2022 - 2026

- CGPA: 7.47

## Projects

### College Related Enquiry Chatbot

- Developed a customer-centric AI chatbot using NLP for resolving college-related queries, improving accessibility for prospective students.
- Architected a scalable Flask backend integrating MySQL for user data and MongoDB for response storage, enhancing performance and reliability.
- Implemented spaCy for named entity recognition and intent detection, ensuring context-aware, accurate responses.
- Led a 5-member backend team in an agile environment, promoting iterative improvements and seamless cross-functional integration.
- Designed for fault tolerance and continuous usability across multiple concurrent users.

### Blood Bank Management System using Amazon Web Services

- Built a secure and scalable full-stack application deployed on AWS, capable of handling 10,000+ operations/day with 50+ concurrent users.
- Designed modular backend architecture using PHP and MySQL, ensuring low-latency transactions and strong data integrity.
- Engineered a responsive frontend with HTML/CSS/JavaScript, focusing on user experience and accessibility.
- Applied Amazon Web Services for infrastructure deployment, increasing scalability and uptime.
- Owned complete documentation for system architecture and deployment, enabling long-term maintainability.

### Serenade – Music Player (Electron, React) | FOSSHack 2025 Winner

- Spearheaded end-to-end development of a secure, scalable desktop music player with full-stack integration using Electron and React.
- Integrated SpotDL API for seamless music downloads with playlist organization and metadata management.
- Developed real-time audio visualizations using Web Audio API, enhancing user interaction through dynamic visual feedback.
- Configured CI/CD pipelines and cross-platform builds, demonstrating ownership and delivery of a production-ready application.
- Recognized among winning projects at FOSSHack 2025, highlighting innovation and impact.

## SKILLS, CERTIFICATIONS, INTERESTS

**Languages:** C++, Java, Python, SQL, JavaScript, HTML, CSS, Node.js, TypeScript, Next.js

**Frameworks & Tools:** Flask, React, Express, Electron, Vite, ChatterBot

**Technologies:** Amazon Web Services (AWS), Apache XAMPP, Git, Excel, GenAI, Vercel

**Methodologies:** Agile development, End-to-end system design, CI/CD, Object-Oriented Design, Problem Solving, and Complexity Analysis.

**Certifications:** Python Essentials(Vityarthi), Industrial IoT Markets and Security(Coursera), MERN Full Stack(Ethnus), AWS Solutions Architect(Ethnus), AWS Academy Cloud Foundations(AWS Academy Graduate), AWS Academy Cloud Architecting(AWS Academy Graduate)