Harsh Markandey
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Education

VIT Bhopal University   Sep. 2022 – May 2026
Bachelor of Science in Computer Science   *Sehore, M.P*

Relevant Coursework

- Data Structures and Algorithms
- Software Engineering
- Database Management
- OOPS with C++
- Internet Technology
- Operating System
- Computer Architecture

Projects

NyAI – AI-Powered Legal Assistant | [Live Demo](#) | *Finalist – Bharat Gen AI Hackathon 2025*   **January 2025**
- Developed a secure, serverless SaaS platform that delivers structured legal assistance — including constitutional articles, relevant precedents, and procedural checklists — using Retrieval-Augmented Generation (RAG) from curated legal sources, achieving 85% query accuracy in testing phase.
- Built a hybrid RAG system combining Cloudflare AutoRAG for public legal knowledge and a custom document pipeline for private user-uploaded files, reducing document processing time by 60% compared to manual research methods.
- Integrated Google's Gemini LLM via Genkit to produce reliable, structured outputs, implementing comprehensive error handling that achieved 95% system uptime during development testing.

Chaupal | *Web Platform for Women Self-Help Group's Operations and Communication*   **November 2024**
- Designed and developed a web platform to help women self-help groups manage records, request inter-group loans, propose meeting agendas, and communicate through a centralized group chat, targeting 500+ potential users across rural communities.
- Developing a responsive frontend using React.js with 100% mobile compatibility, building backend with Node.js and Express.js capable of handling 100+ concurrent users, and integrating MongoDB and SQL databases with 99.9% data integrity.
- Implementing role-based access control for 3 user types, real-time chat using Socket.io supporting simultaneous connections, and CRUD operations with RESTful API standards following industry best practices. The project is currently under development.

Pysnippet | *Code Snippet Management Tool in Python*   **January 2024**
- Developed a Python-based, MongoDB-backed solution for efficient storage and retrieval of code snippets, reducing code search time by 90% and supporting 100+ snippet storage capacity with automated clipboard functionality.

Certifications

IBM Back-end JavaScript Developer | [Certificate](#) | *Professional Certificate By IBM*   **June 2025**
- Built and deployed back-end application using Node.js, Express, NoSQL databases, and containerization technologies like Docker and Kubernetes.

NPTEL Cloud Computing | [Certificate](#) | *Certification By IIT kharagpur*   **April 2024**
- Fundamentals of cloud architecture, deployment models, and cloud services.

Bits and Bytes of Computer Networking | [Certificate](#) | *Certification By Google*   **December 2023**
- Understanding of network protocols, IP addressing, and secure communication fundamentals.

Technical Skills

Languages: Python, Javascript, Typescript, C++, SQL, Bash
Developer Tools: VS Code, Eclipse, Amazon Web Services, GitHub
Technologies/Frameworks: Linux, Node.js, Docker, RESTful APIs, React, MongoDB, LLMs (Gemini), API Testing (Postman), Version Control (Git)

Leadership / Extracurricular

HealthoTech Club (Bioinformatics Club)   **Winter 2024 – Present**
Tech Team Co-Lead   *VIT Bhopal University*
- Developed and launched the official HealthoTech Club website using modern web technologies, reaching over 500 monthly users during peak fest and event seasons.
- Led a cross-functional team of 3 developers using Agile methodologies to build a Blood Donor Finder app with PIN-code-based proximity search and donor cool down logic, ensuring timely and fair donor availability during emergencies; currently integrating DIGIPIN for enhanced location accuracy