

Harsh Markandey

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EDUCATION

- **VIT Bhopal University** Bhopal, M.P
Bachelor of Technology in Computer Science; CGPA: 7.72 Aug. 2022 – Apr. 2026
- **Choithram School** Indore, M.P
Higher Secondary Certificate (HSC); CGPA: 8.00 July. 2022

PROJECTS

- **NyAI – AI-Powered Legal Assistant** Live: <https://studio-tawny-tau.vercel.app/>
Finalist – Bharat Gen AI Hackathon 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.
 - Built a hybrid RAG system combining Cloudflare AutoRAG for public legal knowledge and a custom document pipeline for private user-uploaded files, enabling personalized and context-aware legal insights.
 - Integrated Google’s Gemini LLM via Genkit to produce reliable, structured outputs in Laws, Precedents, Checklist, Simplified format, supported by Firebase-authenticated user sessions and feedback-driven response validation.
- **Chaupal**
Web Platform for Women Self-Help Group’s Operations and Communication
 - 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 to address organizational challenges.
 - Developing a responsive frontend using React.js, building backend with Node.js and Express.js, and integrating MongoDB and SQL databases to ensure data management, system reliability, and scalability.
 - Implementing role-based access control, real-time chat using Socket.io, and CRUD operations with RESTful API standards. The project is currently under development.
- **Pysnippet**
Code Snippet Management Tool in Python
 - Developed a Python-based, MongoDB-backed solution for efficient storage and retrieval of code snippets and reusable text as key-value pairs, automating clipboard functionality to enhance developer workflows and streamline content access.

COURSES

- **IBM Back-end JavaScript Developer (Professional Certificate) – [IBM]**: Built and deployed back-end application using Node.js, Express, NoSQL databases, and containerization technologies like Docker and Kubernetes.
- **NPTEL Cloud Computing (IIT kharagpur)**: Fundamentals of cloud architecture, deployment models, and cloud services.
- **Bits and Bytes of Computer Networking (Google)**: Understanding of network protocols, IP addressing, and secure communication fundamentals.

EXTRACURRICULAR ACTIVITIES

- **Tech Team Co-Lead – HealthoTech Club (Bioinformatics Club)**:
Contributed to technical operations, including digital resource development and platform management, to enhance member engagement and promote knowledge-sharing.

SKILLS AND COMPETENCIES

- **Languages**: Python, Javascript, Typescript, C++, SQL, Bash
- **Technologies**: AWS, Nodejs, Git, Docker, RESTful APIs, React, MongoDB, LLMs (Llama 3.5, AWS Titan)