

HARSH MARKANDEY

Indore, M.P

8989505630 — markharsh70@gmail.com — linkedin.com/in/harsh-mark/ — github.com/markharsh7

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)

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.

Education

VIT Bhopal University

Sep. 2022 – May 2026

Bachelor of Science in Computer Science

Sehore, M.P

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.

MySQL HeatWave Implementation Certified Associate | [Certificate](#) | Oracle Certified Associate

OCTOBER 2025

- Validated technical expertise in architecting high-performance MySQL environments and leveraging HeatWave for real-time, in-memory analytics.

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