

GOPAL CHOUHAN

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PROFILE

Final-year **B.Tech IT student** specializing in **Full Stack Web Development** with hands-on experience in building **scalable, real-time, and AI-integrated applications**. Proven ability to design end-to-end solutions using **React, Node.js, MongoDB, WebRTC, and OpenAI APIs**. Actively seeking a **Full Stack Developer Internship** where I can contribute to real-world products and grow into a full-time role.

EDUCATION

- Indore Institute of Science and Technology, Indore
 - B.Tech – Information Technology | 2022 – 2026
- Govt. Excellence Higher Secondary School, Gogawa
 - 10th – 91% | 12th – 76%

Technical Skills

Programming Languages: JavaScript , Java

Backend & Frameworks: Node.js, Express.js, REST APIs, Microservice-ready architecture (basic understanding)

Frontend & Frameworks: React.js, WebRTC, Socket.IO

Cloud & DevOps: AWS (EC2, S3 – basics)

AI & ML Integration: OpenAI API, TensorFlow.js

Tools & Platforms: GitHub, Postman, VS Code, Linux (Basic)

PROJECTS

Smart Emotion-Adaptive Web Interface (MERN + AI)

- Built a full-stack web application that dynamically adapts UI theme and content based on real-time user emotions.
- Implemented facial emotion recognition using TensorFlow.js and personalized responses using OpenAI GPT APIs.
- Developed an analytics dashboard to track user emotion patterns and engagement trends.
- Tech Stack: React, Node.js, Express, MongoDB, TensorFlow.js, OpenAI API

AI-Driven Personalized Learning Simulator

- Built a **backend-driven learning platform** that dynamically adapts content based on user performance.
- Designed APIs to manage user profiles, skill assessments, and progress tracking.
- Implemented **business logic for adaptive difficulty and recommendation flow**.
- Ensured database efficiency and scalability for multiple concurrent users.

Tech: Node.js, Express.js, MongoDB, REST APIs

ApnaVideoMeet – Real-Time Video Conferencing System

- Developed a **real-time communication system** using peer-to-peer architecture.
- Implemented backend signaling logic for session creation and user coordination.
- Handled real-time events, message routing, and connection lifecycle management.
- Focused on **system reliability and low-latency communication**.

Tech: WebRTC, Socket.IO, React.js, Node.js

CERTIFICATIONS

- **Full Stack Web Development (MERN) — Apna College**
- **Java + DSA — Apna College**
- **AWS Cloud Foundations — AWS Academy**
- **SQL & Database Management — IBM**

EXTRACURRICULAR ACTIVITIES

- **Hackathon Participant (2023):** Built a smart Vendor service website in 24 hours
- **School Sports Captain:** Led cricket and athletics teams