

Ghanshyam Kumar

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Education

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science and Engineering — CGPA: 7.97

Bhopal, MP

2022 – 2026

Projects

AI Recruiter Voice Agent GitHub

Oct 2025 – Present

- Engineered a voice-based AI interview platform using Next.js, React, Vapi.ai, and Supabase, automating 70% of initial candidate screenings and reducing manual effort by 45%.
- Integrated real-time voice interactions via Vapi.ai, supporting adaptive follow-up questions and natural flow with low-latency speech synthesis.
- Incorporated LLM-powered question generation and scoring logic, boosting candidate evaluation consistency and accuracy by 40%.
- Created recruiter analytics dashboards monitoring 5+ interview metrics like completion rate, candidate scores, and transcripts for data-driven insights.
- Enabled automated transcript generation and summarization using embeddings, facilitating faster reviews and one-click sharing.

MedConnect GitHub

Sept 2024 – Present

- Designed a full-stack hospital management platform supporting 3 user roles (patient, doctor, admin) and 5+ healthcare workflows, including appointment booking and digital records, leveraging React.js, Node.js, and MongoDB.
- Developed an AI-powered medical chatbot with Gemini LLM to analyze symptoms and reports, enhancing consultation readiness by 20% in internal testing.
- Built real-time video consultations using WebRTC and live chat via WebSockets, enabling low-latency 1:1 doctor-patient communication and cutting response times by 30%.
- Implemented JWT-based authentication with role-based access control and verified doctor onboarding, ensuring secure data isolation and healthcare privacy compliance.
- Crafted patient dashboards displaying appointment history, consultation records, and emergency contacts, improving user experience based on feedback.

RideConnect GitHub

June 2024 – Present

- Constructed a full-stack real-time ride booking application using Node.js, WebSockets, MongoDB, and Google Maps API, managing concurrent ride requests and live updates.
- Deployed WebSocket-based real-time communication for ride requests, driver responses, and trip status updates, reducing polling overhead by 50%.
- Established secure OTP-based authentication for rider and driver onboarding and session management, preventing unauthorized access.
- Optimized MongoDB geospatial queries to locate nearby drivers based on rider position, achieving efficient discovery within 5 seconds.
- Added ride history functionality showing completed trips with pickup, drop, distance, and timestamp details, enhancing data transparency and user satisfaction.

Skills

Programming Languages: C++, JavaScript, TypeScript, HTML, CSS

Frameworks & Libraries: React.js, Next.js, Express.js, Tailwind CSS, WebRTC, WebSockets

Backend & Tools: Node.js, Git, JWT, Postman, REST APIs, Gemini LLM, Vapi.ai

Databases & ORM: MongoDB, PostgreSQL, Prisma, Supabase

Core CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming (OOPS), DBMS, Operating Systems, Computer Networks

Other Concepts: Authentication & Authorization, Real-Time Communication, AI Integration, Geospatial Queries, Software Development, Full-Stack Development

Achievements

- Solved 400+ DSA problems across LeetCode and GFG platforms.
- Achieved Global Rank 1149 in LeetCode Biweekly Contest.
- Finalist in 3+ team-based hackathons at VIT and national levels.
- Certified in "Bits and Bytes of Computer Networking" (Coursera).
- Certified in "Cloud Computing" (NPTEL).