

Vivek Chouhan

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TECHNICAL SKILLS

C, C++, Java, Python, SQL, JavaScript, HTML/CSS, React.js, Node.js, Tailwind CSS, MySQL, Git/GitHub, AWS

PROJECTS

FinDash | *React, Node.js, MongoDB*

Feb 2025 – Apr 2025

- Architected a full-stack MERN application to provide a centralized dashboard for users to seamlessly monitor their income, expenses, and savings.
- Implemented secure user authentication with JWT and bcrypt.js, guaranteeing data privacy and protecting access to sensitive financial information.
- Engineered full CRUD functionality for financial transactions and integrated a CSV import feature to streamline the process of uploading bank statements.
- Designed dynamic data visualizations using the Recharts library, offering users clear, interactive insights into spending habits and financial trends.

DocBot | *Python, Gradio, Groq, Whisper, LLaMA*

Jan 2024 – June 2024

- Engineered a full-stack, AI-powered medical chatbot using Python and Gradio, enabling seamless user interaction through both voice and image inputs for comprehensive health inquiries.
- Implemented a sophisticated backend with a multimodal Large Language Model (LLaMA) to analyze medical images in conjunction with transcribed user queries, providing accurate and context-aware responses.
- Developed a real-time speech-to-text and text-to-speech pipeline leveraging the Whisper model for accurate transcription and pyttsx3/ElevenLabs for clear, audible responses.
- Utilized Groq's cloud-based inference engine for high-speed LLM and managed API keys and environment variables for a secure and scalable application deployment.

HemoVue | *React.js, Node.js, MongoDB, Flask, Arduino, Sensor Interfaces*

May 2023 – Jul 2023

- Developed a full-stack physiological monitoring system to infer hemoglobin levels using real-time SpO2 data for proactive anemia risk analysis.
- Designed a dynamic React.js frontend to visualize biometric vitals, trend patterns, and health alert triggers with a responsive interface.
- Built RESTful APIs using Node.js and integrated a Flask microservice for PPG waveform processing and hemoglobin inference logic.
- Configured MongoDB to manage and query patient-specific time-series data, and interfaced MAX30100 via Arduino using I²C protocol.

EXTRA-CURRICULAR

- Secured 3rd position in inter-college weightlifting championship under the 55 kg category, showcasing discipline, strength, and competitive spirit.
- Served as Social Media Coordinator for VIT Bhopal Mozilla Firefox Club, leading content planning and managing outreach across digital platforms.
- Achieved Runner-up position in the “Front-End Sprint” hackathon organized by the Android Club, conducted in a hybrid format.
- Advanced to Round 2 of the Adobe India Hackathon, showcasing strong problem-solving skills and innovative solutions in a competitive national-level environment.

EDUCATION

Vellore Institute Of Technology

2022 – 2026

B.Tech in Computer Science and Engineering | Cloud Computing and Automation

CGPA: 8.87 / 10

Shri Cloth Market Vaishnav Higher Secondary School, Indore

2022

CBSE Board – Class XII

Percentage: 90.2%

Shri Cloth Market Vaishnav Higher Secondary School, Indore

2020

CBSE Board – Class X

Percentage: 81.8%