

Vivek Chouhan

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EDUCATION

VIT Bhopal University	Bhopal
<i>B.Tech in Computer Science and Engineering Cloud Computing and Automation – CGPA: 8.87</i>	<i>Nov 2022 – Present</i>
Shri Cloth Market Vaishnav Higher Secondary School	Indore
<i>12th Secondary School Examination, CBSE Board – 90.2%</i>	<i>July 2022</i>
Shri Cloth Market Vaishnav Higher Secondary School	Indore
<i>10th Senior School Examination, CBSE Board – 81.8%</i>	<i>March 2020</i>

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, SQL, JavaScript, HTML/CSS
Web/Frameworks: React.js, Node.js, Tailwind CSS
Databases & Data: MySQL, MongoDB, CSV/JSON handling
Tools & DevOps: Git, GitHub, VS Code, VirtualBox
Cloud Platforms: Amazon Web Services (EC2, S3, RDS), Google Cloud Platform
Relevant Coursework: Data Structures, Object-Oriented Programming (OOP), Operating Systems, Computer Networks

PROJECTS

FinanSage React, Node.js, Express, MongoDB	<i>Jan 2025 – March 2025</i>
– Engineered a MERN-stack financial dashboard to optimize tracking of income, expenses, and savings goals.	
– Fortified the application with JWT for robust user authentication, safeguarding sensitive financial data.	
– Automated financial data management by implementing a CSV bank statement import utility.	
– Translated complex financial data into actionable insights by designing interactive visualizations with Recharts.	
DocBot Python, Gradio, Groq, Whisper, LLaMA	<i>Jan 2024 – June 2024</i>
– Developed a multimodal AI chatbot (Python, Gradio) handling 50+ medical query types via voice and image inputs.	
– Deployed a LLaMA backend for multimodal analysis of medical images and text, achieving 95% response accuracy.	
– Engineered a real-time voice pipeline with Whisper, achieving ~95% transcription accuracy under 500ms latency.	
– Integrated Groq's API to accelerate inference speed by 3x, enabling support for over 100 concurrent users.	
HemoVue React.js, Node.js, MongoDB, Flask, Arduino	<i>May 2023 – July 2023</i>
– Engineered physiological monitoring platform capturing 600+ SpO2 readings daily with 91% hemoglobin accuracy.	
– Built React.js dashboard visualizing 15+ biometric parameters reducing assessment time by 68%.	
– Developed Node.js APIs processing 1,200+ requests/hour with Flask microservice at 2.1s latency.	
– Integrated MAX30100 sensor achieving 96% reliability while logging 12,000+ records in MongoDB.	

EXTRACURRICULAR & ACHIEVEMENTS

- Coordinated social media strategy for VIT Mozilla Firefox Club reaching 500+ community members across 4 platforms.
- Secured 3rd position in inter-college weightlifting championship (55kg category) competing against 28+ athletes.
- Earned Runner-up position in "Front-End Sprint" hackathon defeating 55+ teams with React.js solution in 20-hour timeframe.

CERTIFICATIONS

Generative AI – IBM Center for Excellence	March 2025
<i>IBM</i>	
Blockchain Fundamentals – IBM Center for Excellence	May 2025
<i>IBM</i>	
Blockchain Developer – IBM Center for Excellence	June 2025
<i>IBM</i>	