Vivek Chouhan

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github.com/VivekChouhan1

EDUCATION

Vellore Institute Of Technology

B.Tech in Computer Science and Engineering | Cloud Computing and Automation – CGPA: 8.87   *Nov 2022 – Present*

Shri Cloth Market Vaishnav Higher Secondary School

12th Secondary School Examination, CBSE Board – 90.2%   *July 2022*

Shri Cloth Market Vaishnav Higher Secondary School

10th Senior School Examination, CBSE Board – 81.8%   *March 2020*

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*   *Jan 2025 – March 2025*
- 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*   *Jan 2024 – June 2024*
- 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*   *May 2023 – July 2023*
- 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
IBM

Blockchain Fundamentals – IBM Center for Excellence   May 2025
IBM

Blockchain Developer – IBM Center for Excellence   June 2025
IBM