Vivek Chouhan

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github.com/VivekChouhan1

Education

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

Shri Cloth Market Vaishnav Higher Secondary School — Indore
12th Secondary School Examination, CBSE Board – 90.2% — *July 2022*

Shri Cloth Market Vaishnav Higher Secondary School — Indore
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: PostgreSQL, MySQL, MongoDB, CSV/JSON handling
Tools & DevOps: Git, GitHub, VS Code, Linux, Docker, 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

DiagnosIQ | ***React, Django, PostgreSQL, SVM*** — *February 2025 – April 2025*
- Architected medical diagnosis platform processing 15+ symptom inputs with 92% prediction accuracy across 1,500+ sessions.
- Constructed Django REST APIs handling 750+ hourly requests achieving 1.1s average response time.
- Implemented PostgreSQL database storing 2,500+ encrypted patient records with JWT authentication.
- Trained SVM classifier analyzing 12,000+ medical samples delivering predictions in 0.7s with 94% F1-score.

HemoVue | ***React.js, Node.js, MongoDB, Flask, Arduino*** — *January 2024 – June 2024*
- 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.

Water-Control System | ***Python, Raspberry Pi, IoT, Sensors*** — *March 2023 – May 2023*
- Engineered IoT monitoring system using ultrasonic sensors achieving 96% accuracy across 75+ test cycles.
- Programmed Raspberry Pi GPIO controlling solenoid valves with 1.8s response time at 99.9% reliability.
- Integrated LED indicators delivering status updates with 0.08s refresh rate for automated alerts.
- Deployed system supporting 24/7 operation processing 180+ sensor readings per minute.

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