Rushabh Wagh

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Education

VIT Bhopal University, Bhopal   Sept 2022 – Ongoing
B.Tech, Computer Science and Engineering   *CGPA: 8.58*

Technical Skills

Languages: C++, JavaScript, SQL
Frameworks & Libraries: React.js, Redux, Node.js, Express.js, Tailwind CSS, Axios
Databases: MySQL, MongoDB, PostgreSQL
AI/ML Tools: Scikit-learn, OpenCV, Pandas
Core CS Skills: Data Structures and Algorithms, OOP, Operating System
Tools: Git, GitHub, Postman, VS Code, MongoDB Atlas, Render, Vercel, AWS

Projects

Time Complexity Analyzer [Live] [Github]   Jun 2025 – Aug 2025

- Created a real-time algorithm complexity analyzer using React.js, Node.js, and the Gemini Flash API, delivering instant time/space complexity insights for user-submitted code.
- Streamlined front-end interactions with optimized state handling, enabling responsive UI updates and smooth cross-component data flow.
- Added secure access control with JWT and bcrypt, supporting authenticated sessions and a personalized experience for 100% of logged-in users.

Blood Bank Locator [Live] [Github]   Mar 2025 – Apr 2025

- Engineered a real-time Blood Bank Locator web platform using Python, Flask, and Pandas, reducing emergency search time by 80% compared to manual methods.
- Built and deployed a RESTful API with <1s query response time for 2,800+ verified blood banks across India.
- Implemented efficient city/state-based search with sorted filtering to optimize lookup time.

Real-Time Person, Gender & Pose Detection System   Sep 2024 – Nov 2024

- Architected a real-time surveillance prototype during a college hackathon using YOLOv5, OpenCV DNN, and a custom-trained gender classification model.
- Extended the system with YOLOv8-pose to enable multi-person keypoint estimation at 15 FPS, achieving >99% classification accuracy and >90% detection confidence.

Diabetes Prediction Model – ML Pipeline [Github]   Apr 2024 – May 2024

- Constructed a predictive model to assess diabetes risk using medical metrics (glucose, BMI, blood pressure).
- Designed a preprocessing pipeline with KNN-based missing value imputation, improving dataset quality and reducing runtime by 15%.

Achievements

Won 1st place in a Hackathon organized by GeeksforGeeks VIT Bhopal, competing among 50+ teams.
Smart India Hackathon '24 (Internal Winner)
Ranked in the Top 4% (483 / 10,000+) at VIT University on GeeksforGeeks Coding Portal.
Completed Hacktoberfest (2024,2025)

Co-Curricular

Solved 500+ coding problems LeetCode and GeeksForGeeks.
5 Star in C++, Python on HackerRank.