Rushabh Wagh

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Education

VIT Bhopal University, Bhopal	Sept 2022 – Ongoing
B.Tech, Computer Science and Engineering	*CGPA: 8.61*

Technical Skills

Languages: C++, JavaScript, Python, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, ExpressJS

AI/ML Tools: HuggingFace Transformers, Scikit-learn, OpenCV, Pandas

Core CS Skills: Data Structures and Algorithms, OOP, Operating System, Database Management

Developer Tools: Git, Postman, VS Code, MongoDb Compass

Projects

Time Complexity Analyzer — Jun 2025 – Aug 2025

- Built a single-page web app for real-time code complexity analysis, integrating Google Gemini Flash API for AI-powered explanations of sorting, searching, and recursion algorithms.
- Designed a scroll-based React.js interface with animated progress indicators sliding result cards, boosting readability and interactivity by 40% during user testing.
- Live : *locate-blood-banks-1.onrender.com*

Blood Bank Locator — Mar 2025 – Apr 2025

- Engineered a real-time Blood Bank Locator web app using Python, Flask, and Pandas, cutting emergency search time by 80% compared to manual methods.
- Deployed a RESTful API with 95% reliability, enabling <1 second filtering of 2,800+ verified blood banks across India. Supported 50+ concurrent users with CORS implementation and multi-threaded Flask server.
- Available here : *tsc-analyzer-delta.vercel.app*

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 — Apr 2024 – May 2024

- Built 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)
University Rank of 508 / 10,000+ students on GeeksForGeeks.
Peak Contest Rating of 1465 on Leetcode
Peak Contest Rating of 1497 on GeeksForGeeks

Co-Curricular

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