

Rushabh Madan Wagh

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Computer Science undergrad skilled in Python, C++, and JavaScript. Hands-on experience in machine learning model development, data preprocessing. Skilled in frontend web development with JavaScript, Node.js, Express.js, and MongoDB.

Education

Vellore Institute of Technology Bachelor of Technology – Computer Science and Engineering	VIT Bhopal Oct 2022 – Oct 2026
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Technical Skills

- Languages:** Python, C++, JavaScript,
Web Development: HTML, CSS, Node.js, Express.js, MongoDB
Computer Vision: OpenCV, YOLOv5, YOLOv8-Pose
Machine Learning: Scikit-learn, XGBoost, KNN, Logistic Regression
Tools: Git, GitHub, VS Code, Jupyter, MongoDB Compass

Projects

BigO Learn [MERN / Scroll-based UI / Code Analysis]	Jun 2025 – Ongoing
<ul style="list-style-type: none">Crafted and built a single-page MERN web app to teach and analyze time & space complexity of code snippets.Implemented a scroll-based React layout with interactive navigation sections: Home, Learn, and Analyze.Developed a clean UI with smooth scroll transitions, a sticky navbar, and modular content loading.	
Blood Bank Locator [Github] Live [Python / Flask / Pandas]	Mar 2025 – Apr 2025
<ul style="list-style-type: none">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.	
Real-Time Person, Gender & Pose Detection System [Github] [Python / OpenCV / YOLOv5 / YOLOv8-Pose / Deep Learning]	Sep 2024 – Nov 2024
<ul style="list-style-type: none">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, built as a prototype for smart campus/event safety use cases.	
Diabetes Prediction Model [Github] [Python / Scikit-learn / Medical Dataset]	Apr 2024 – May 2024
<ul style="list-style-type: none">Implemented a machine learning model to predict diabetes risk using patient metrics like glucose, BMI, and blood pressure.Engineered a data preprocessing pipeline featuring robust missing value imputation using KNN and multivariate feature analysis.Achieved up to 94% accuracy with KNN on Kaggle data; XGBoost reached 78.57% on Pima Indian dataset and 78% on a custom merged dataset.Applied hyperparameter tuning and cross-validation for improved performance in early diagnosis support.	

Certifications

- Cloud Computing – NPTEL (Elite + Silver)
- The Bits and Bytes of Computer Networking – Coursera [Link](#)
- AWS Solutions Architecture Virtual Internship – Forage [Link](#)

Extracurricular Achievements

- Solved 350+** Data Structures & Algorithms problems across LeetCode and GeeksforGeeks, strengthening algorithmic thinking and coding efficiency.
- Achieved a **LeetCode Global Rank of 682,255** and **University Rank of 1661** on GeeksforGeeks.
- Won 1st place** in a college-level Hackathon organized by GeeksforGeeks VIT Bhopal, competing among 50+ teams.