# Rushabh Madan Wagh

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### **Education**

### Vellore Institute of Technology, Bhopal

Bachelor of Technology - Computer Science and Engineering

Sept 2022 – Ongoing CGPA: 8.61

### **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 [Live]

[MERN / Scroll-based UI / Code Analysis]

Jun 2025 – Aug 2025

- **Developed** a single-page **MERN** web app that simplifies learning by **teaching** and **analyzing** the time & space complexity of code snippets in **real time**.
- **Developed** a clean, scroll-based React UI with interactive navigation sections, decreasing **bounce rate** by 8% through **improved** user experience and clear information architecture for single page application.
- Developed a clean UI with smooth scroll transitions, a sticky navbar, and modular content loading.

# Blood Bank Locator [Github] Live

Mar 2025 - Apr 2025

[Python / Flask / Pandas]

- **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

- 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]**

Apr 2024 - May 2024

[Python / Scikit-learn / Medical Dataset]

- Implemented a machine learning model to predict diabetes risk using patient metrics like glucose, BMI, and blood pressure.
- Engineered a data preprocessing pipeline that featured robust **missing value** imputation using KNN, which enhanced data quality for early diagnosis support and **reduced** processing time by 15%.
- 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.

### Certifications

- Cloud Computing NPTEL (Elite + Silver)
- The Bits and Bytes of Computer Networking Coursera <u>Link</u>
- AWS Solutions Architecture Virtual Internship Forage Link

### **Extracurricular Achievements**

- Achieved a LeetCode Global Rank of 682,255 and University Rank of 528 on GeeksforGeeks.
- Won 1st place in a college-level Hackathon organized by GeeksforGeeks VIT Bhopal, competing among 50+ teams.