

Vansh Sharma

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LinkedIn | GitHub | Portfolio

Education

PES University

B.Tech in Computer Science & Engineering (AI/ML)

Bengaluru, Karnataka

Sep 2024 – Present

Cambridge International School

High School Diploma – Sciences & Mathematics (Grade XII)

Amritsar, Punjab

2022 – 2024

Technical Skills

Languages: C, Python, JavaScript (ES6+)

Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Flask, FastAPI, OpenCV, Groq API, NVIDIA NIM

Databases: MongoDB, Supabase, SQLite

Developer Tools: Git, GitHub, Vercel, Render, Gunicorn, n8n, Docker, VS Code, Apache JMeter

Core Concepts: Data Structures & Algorithms, OOP, RESTful APIs, Explainable AI (XAI), Computer Vision, SHAP

Experience

PESU Research Foundation (PESURF)

Product Intern

Jun 2026 – Present

Bengaluru, Karnataka

- Building Sanjeevani AI, a two-stage AI pipeline (vision OCR via Llama 4 Scout + medical analysis via Llama 3.3 70B) with multi-provider routing across Groq and NVIDIA NIM, rotating API key pool, and MD5-based prescription result caching.
- Implemented fuzzy matching against a 2.5 lakh+ medicine dataset with SQLite caching and OpenFDA fallback; LLM-powered search auto-caches unknown medicines; delivers multilingual output across all 22 scheduled Indian languages via Microsoft Edge TTS.
- Designed end-to-end product architecture across six formal documents (PRD, TRD, App Flow, UI/UX Brief, Backend Schema, Implementation Plan); conducted baseline AI evaluation with a custom evaluation script.

AIESEC in Bengaluru

Senior Manager, Outgoing Corporate Exchanges

Sep 2025 – Present

Bengaluru, Karnataka

- Progressed from Junior Manager (Sep 2025) to Senior Manager, driving corporate exchange partnerships and talent pipeline for outgoing programs.
- Served on the Organizing Committee for Recruitments (Nov 2025 – Feb 2026); currently part of the People Management Support Team (Apr 2026 – Present).

Projects

ClearTriage – Explainable AI Hospital Triage System

Next.js, Express, MongoDB, FastAPI, SHAP

- Developed a hospital triage system with a Random Forest ESI classifier and SHAP-based explainability, surfacing real-time “Why?” tooltips for every nurse-facing prediction.
- Conducted a 50-case Human vs. AI clinical audit; validated via Apache JMeter with a 0% error rate at 1,000 users and only +82ms AI overhead.

NovaLearn – Learning Management System

Next.js, Node.js, Express, MongoDB

- Engineered a full-stack LMS with role-based access control; Instructors can author multi-chapter video courses, and Students can enroll, track progress, and manage their learning path.
- Achieved 619 req/s at 100 concurrent users during Apache JMeter load testing.

Hospital Queue Management System

MERN Stack, Apache JMeter

- Built a real-time queue management system validated to handle 500+ concurrent users with 16ms latency and 0% packet loss under load testing.

Portfolio Website

- Developed a responsive portfolio with React.js and Tailwind CSS; deployed on Vercel with CI, achieving a 97/100 Google Lighthouse performance score through asset optimization and mobile-first design.

Certifications

Building with Azure Custom Vision – *Microsoft Learn Student Ambassadors, PES University*

Practical Web Security and Ethical Hacking – *PESU IO*

C Programming Certification – *Udemy*

Python Basics Certification – *HackerRank*

Extra-Curricular Activities

Microsoft Learn Student Ambassadors (MLSA) – PESU

Oct 2025 – Present

Logistics Member

Bengaluru, Karnataka

- Coordinate logistics for technical workshops and community events under the MLSA chapter at PES University.