

VEDANT BHOSALE

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Computer Engineering graduate focused on backend engineering, AI/computer vision, and full-stack product development. Experience shipping a production-style SaaS (PulseCheck), building applied computer-vision systems, and prototyping RAG/agentic pipelines. Comfortable across the stack from infra (Docker, Redis, background workers) to model integration.

EXPERIENCE

- VR Development Intern — Firebird VR**Jun 2025 – Aug 2025
- Contributed to VR application development as part of a college-placement internship cohort — worked on scene design, VR interaction logic, and Unity build/testing workflows.
- Research Assistant — College Faculty Project**01/2025 – 05/2025
- Applied statistical methods to identify anomalies and outliers across datasets of 5 lakh+ entries using Python.

PROJECTS

- PulseCheck — Full-Stack Uptime Monitoring SaaS**
- Built and deployed a full-stack SaaS that monitors website uptime in real time, sends email alerts on downtime, and publishes public status pages.
 - Built a Node.js/Express + PostgreSQL (Prisma) API with JWT auth and ownership-scoped CRUD for monitors.
 - Architected a BullMQ/Redis background worker for scheduled per-monitor health checks with automatic email alerts via Resend on status change.
 - Developed a Next.js + Tailwind frontend with a custom real-time ICU/heartbeat visual theme.
 - Containerized all services with Docker and deployed to Render (API, worker, frontend as independent services).

[Node.js](#) · [Express](#) · [PostgreSQL](#) · [Prisma](#) · [Redis](#) · [BullMQ](#) · [Next.js](#) · [Docker](#)
- Veridex — Digital Identity & Document Verification Platform**In Progress
- Building a general-purpose identity/document verification pipeline: document classification → OCR field extraction → face match → confidence scoring → audit trail.
 - Currently at v1 prototype stage (single document type, core OCR fields, functional face-match) with API-only output.

[InsightFace](#) · [YOLOv8](#) · [FastAPI](#) · [PostgreSQL](#) · [OpenCV](#)
- EDU-VISION: AI-Powered Attendance System — Final Year Project**
- Developed an AI-based smart classroom management system using facial recognition to automate attendance, reduce proxy entries, and provide attendance analytics through a secure web application.

[Python](#) · [OpenCV](#) · [FastAPI](#) · [PostgreSQL](#) · [React.js](#) · [Git](#) · [Computer Vision](#)
- Internal Docs Q&A; Agent — AI Agent Hackathon (2025)**
- Prototyped an AI-powered assistant to answer queries from internal documents during a 48-hour hackathon; built a working Q&A; pipeline with semantic search and live demo deployment.
 - Learned fundamentals of RAG workflows, vector search, and AI-powered document retrieval.

[LangChain](#) · [FAISS](#) · [Hugging Face](#) · [Gemini API](#) · [Streamlit](#)
- VR Experience — Qubits & Schrödinger's Cat (6th Semester Project)**
- Built an educational VR project in Unity to simplify quantum computing concepts for learners; designed an interactive 3-scene experience (classroom intro, superposition demo, entanglement demo) with Meta XR SDK for UI, audio, and VR controls.

[Unity](#) · [Meta XR SDK](#)

EDUCATION

- Wadia College of Engineering (MESWCOE), Pune — Savitribai Phule Pune University**2022 – 2026
- Bachelor of Engineering in Computer Engineering | **CGPA: 8.10**
- Sou Vimalabai Garware Jr. College, Pune**2022
- Higher Secondary Education (HSC) | **71.82%**
- Genba Sopanrao Moze School, Pune**2020
- Secondary Education (SSC) | **92.60%**

SKILLS

Languages: Python, Java, JavaScript (Node, Express, React), SQL | **Backend:** FastAPI, REST APIs
Databases: MySQL, PostgreSQL | **AI/ML:** NumPy, Pandas, OpenCV, Scikit-learn, LangChain, Hugging Face, RAG, CV
Developer Tools: Git, GitHub, Linux (Ubuntu), VS Code, Docker | **Other:** Unity, Meta XR SDK

ACHIEVEMENTS

- Anthropic Certifications:** Claude Code 101, Claude Code in Action
- Unity Junior Programmer Certification:** Professional certification in Unity development