

TIRTH VAGHELA

Full-Stack Developer | AI/ML Enthusiast

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[Portfolio: tirthvaghela.in](#)

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CAREER OBJECTIVE

Full-Stack Developer and AI/ML enthusiast with hands-on experience building production-grade web applications and computer-vision-powered systems using React, Next.js, Django, Flask, FastAPI, and MongoDB. 8+ projects shipped across web, mobile, and AI domains. Passionate about turning real-world problems into clean, scalable software and continuously exploring new technologies.

EDUCATIONAL QUALIFICATIONS

Degree	Institution	Duration	CGPA / Status
M.Sc. (IT) — Integrated	GLS University	2025 - 2027	Pursuing (Sem 9)
B.Sc. (IT)	GLS University	2022 - 2025	7.64 CGPA — First Class w/ Distinction

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, SQL, Dart, PHP

Web Technologies: React.js, Next.js, HTML, CSS, Tailwind CSS, Flutter

Backend / Frameworks: Django, Django REST Framework, Flask, Node.js, Express.js, FastAPI, REST APIs, JWT Auth

Databases: MongoDB, MySQL, SQLite

AI / ML & Computer Vision: YOLOv4, YOLOv8, OpenCV, DeepFace, ArcFace, OCR

Software / Tools: Git, GitHub, VS Code, Vercel

Operating Systems: Windows

ACADEMIC PROJECTS

Urban Signal — AI Traffic Management Platform | *Next.js, TypeScript, Flask, YOLOv4, OpenCV, MySQL*

- Real-time signal optimization system that reads live intersection congestion and dynamically times signals, with automatic detection and priority routing for emergency vehicles. Contribution: Designed and built the full computer-vision pipeline and dynamic signal-control logic end-to-end.

RIGS — Roadside Intelligent Governance System | *React, Node.js, MongoDB, YOLOv8, OpenCV, OCR*

- Automated traffic safety compliance system that detects helmetless riders, crops license plates, extracts the plate number via OCR, and auto-generates e-challans. Contribution: Built the YOLOv8 detection + OCR extraction pipeline and the challan-generation workflow.

Wedding Face Finder — AI Photo Search System | *Flask, DeepFace, ArcFace, RetinaFace*

- Sub-second facial-recognition search engine that lets a user upload a face and instantly find themselves across thousands of wedding photos. Contribution: Implemented facial embedding extraction and similarity-based clustering for fast lookups.

Vois — Reactive Social Media Platform | *React, FastAPI, MongoDB, JWT*

- Full-stack social media platform built solo, featuring posts, likes, comments, a follow system, trending analytics, and a glassmorphism UI. Contribution: Built the entire platform independently — frontend, backend, auth, and database design.

Electrox Ecosystem — Digital Voting Platform (Web & Mobile) | *Flutter, React, Node.js, Flask, MongoDB, JWT*

- Multi-platform secure digital voting system covering the full election lifecycle with role-based access (admin, organizer, candidate, voter) and real-time audit logging. Contribution: Implemented RBAC, election-management logic, and real-time notification system across both platforms.

INTERNSHIP / WORK EXPERIENCE

Full-Stack Web Development Intern — Prodigy InfoTech (Remote) | February 2026

- Built a production-ready enterprise authentication system (Django REST Framework + React) with JWT, 2FA (TOTP), session management, audit logging, and RBAC.
- Developed a MERN-stack Employee Management System (JWT auth, file uploads, search/filtering, CSV/PDF export) and a PHP & MySQL e-commerce platform with cart, wishlist, orders, and admin dashboard.
- Built Vois, a full-stack social platform (React, FastAPI, MongoDB) with JWT auth, posts, comments, likes, and follow system.

CERTIFICATIONS

- Master MongoDB Database Design (Compass, Mongosh, PyMongo) — Udemy, Feb 2026
- Claude Code in Action — Anthropic, Mar 2026
- Developing Front-End Apps with React — IBM (Coursera, 4 modules)

ADDITIONAL INFORMATION

Soft Skills: Problem Solving, Team Collaboration, Communication, Adaptability, Time Management, Self-Learning

Languages Known: English, Hindi, Gujarati

Hobbies / Interests: Video Editing, Drawing, Guitar Performance, Exploring New Tech, Music While Coding