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Ahmedabad, India

EDUCATION

- **IITRAM (Institute of Infrastructure Tech. Research & Management)** Ahmedabad, India
Bachelor of Technology in Computer Science; CGPA: 7.8/10 2023 – 2027
- **G.N. National Public School** Gorakhpur, India
Class 12; Percentage: 84% 2022




EXPERIENCE

- **Infosys** Virtual Internship
AI & Machine Learning Intern Jan 2025 – Mar 2025
 - Built an AI-driven **Face Authentication** system using **MediaPipe** with 468-point landmark detection, achieving **95%+ verification accuracy** across varied lighting conditions.
 - Integrated **Speech-to-Text (STT)** and **Text-to-Speech (TTS)** modules, reducing average user interaction time by **30%** compared to a keyboard-only interface.
 - Optimized real-time face tracking pipeline, reducing processing latency to under **50ms** per frame on standard hardware.
- **Zidio Development** Remote
Software Development Intern May 2025 – June 2025
 - Developed **ExcelFlow**, a MERN stack application for automated Excel data processing, reducing manual reporting time by **60%** for end users.
 - Integrated AI-powered automated insight generation and built real-time dashboards using **Chart.js**, supporting **5+ chart types** and CSV/PDF export.
 - Shipped features across 3 sprint cycles in an agile team of 5, using Git for version control and Postman for API testing and documentation.

PROJECTS

- **TeleMedicine Platform | MERN, WebRTC, Socket.io | 🐙 GitHub** Hackathon Winner – 2025
 - Won college-level hackathon by building a full-stack healthcare portal enabling **real-time video consultations** using **WebRTC** with sub-200ms latency.
 - Implemented **automated appointment scheduling** that matched patients to available doctors, reducing booking time from manual ~10 minutes to under **30 seconds**.
 - Built a **Socket.io** powered notification system for appointment reminders and real-time doctor availability updates.
 - Secured backend with **JWT authentication**, role-based access control for patients, doctors, and admins, and REST APIs tested via Postman.
- **AI-Powered Smart Garbage Detection | YOLOv8, FastAPI, Flutter | 🐙 GitHub** College Project
 - Trained a custom **YOLOv8** model on ~8,000 images across 5 waste categories, achieving **88%+ mAP** on the validation set.
 - Built a **FastAPI** inference backend serving predictions in under **100ms**, integrated with a **Flutter** mobile app for field use.
 - Reduced false positive rate by ~**35%** over the baseline using confidence thresholding, spatial filtering, and temporal smoothing across frames.
 - Automated email alerts with GPS location data, enabling municipal response without manual monitoring.
- **P2P File Distribution System | Flutter, Kotlin, Bluetooth | 🐙 GitHub** College Project
 - Built a fully offline, decentralized file-sharing app using **multi-hop Bluetooth mesh networking**, supporting transfers across devices with no internet dependency.
 - Reduced redundant transmissions by ~**40%** using TTL-based propagation control and unique file ID deduplication.

–Designed the protocol to support file sizes up to **50MB** across a mesh of up to **6 nodes** simultaneously.

- **Student Activity Center (SAC) Website** | *Next.js, Tailwind CSS* |  **GitHub** College Project
–Developed the official website for IITRAM’s Student Activity Center, actively used by **500+ students**.
–Improved page load performance using **Next.js SSR/ISR**, achieving a **Lighthouse score of 90+** on performance and accessibility.
- **KisanMitra** | *Python, React, Machine Learning* |  **GitHub** Smart India Hackathon
–Designed a soil quality prediction system using **Random Forest** classification on **7 soil parameters**, recommending optimal crops with **~82% accuracy**.
- **BitLinks** | *Node.js, Express, MongoDB* |  **GitHub** Personal Project
–Developed a full-stack URL shortener with custom aliases, real-time click analytics, and a dashboard tracking **total clicks, referrers, and geographic data**.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), C++, Python, Dart, Kotlin, SQL

Frontend / Mobile: React, Next.js, Tailwind CSS, Flutter

Backend / APIs: Node.js, Express, FastAPI, WebRTC, Socket.io, REST APIs

ML / CV: YOLOv8, MediaPipe, OpenCV, scikit-learn

Databases & Tools: MongoDB, Firebase, SQL, Git, Postman, Razorpay

ACHIEVEMENTS & ACTIVITIES

- **Winner**, College Hackathon – TeleMedicine Platform (1st place out of **X** teams) *2024*
- **Participant**, NASA Space Apps Challenge 2023 – [Project Name/Theme] *2023*
- **Core Member**, Alumni Relations Team – IITRAM *2023 – Present*