Saurabh Yadav

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SUMMARY

IoT and Web Developer with hands-on experience building smart systems that bridge physical hardware with web interfaces. Proficient in Arduino, ESP32, LoRa, and Python. Delivered frontend solutions for real clients, completed Google AI-ML Virtual Internship, and mentored students in IoT development. Focused on smart agriculture, home automation, and energy monitoring.

EDUCATION

Invertis University — Bareilly, Uttar Pradesh
Bachelor of Technology – Computer Science and Engineering | Specialization: IoT & Web Dev — *Aug 2024 – Jun 2028*

Gopal Public School — Uttar Pradesh
Senior Secondary – Class 12 — *Completed 2023*

TECHNICAL SKILLS

IoT & Embedded: Arduino, ESP32, LoRa, Sensors, OLED, ThingsBoard, C, C++, Embedded Systems
Frontend: JavaScript, HTML5, CSS3
Backend & Database: Node.js (Learning), MongoDB, MySQL, Firebase
ML & Data: Scikit-learn, NumPy, Pandas, Matplotlib, Google AI/ML Tools
Tools: Git, GitHub, VS Code, Vercel, Render, ThingsBoard, AWS (Learning)

EXPERIENCE

IoT Mentor — Invertis University, Bareilly
Student Mentor – IoT & Embedded Systems — *2025 – 2026*

- Guided and trained students in IoT and embedded system development; received Certificate of Appreciation
- Helped students build real-world sensor and microcontroller projects from concept to deployment

Freelance Frontend Developer — Remote
Client Project – Road Safety Website — *2025 – Present*

- Developing responsive road safety platform for a real client using JavaScript, HTML & CSS
- Handling complete frontend architecture and collaborating in a team environment using Git

PROJECTS

Road Safety Web Portal | *HTML5, CSS3, JavaScript, Chart.js, Django, Python, TinyMCE* — 2025

- Built full-stack enterprise portal with product catalog, project portfolio, and custom Django admin dashboard with KPI cards and Chart.js graphs
- Delivered responsive frontend for real client; integrated async lead generation forms, SEO-optimized SSR templates, and collaborated with backend team via Git

Smart Indoor Farming System | *Python, ESP32, Sensors, ThingsBoard, LoRa* — 2025

- Built IIoT system monitoring temperature, humidity, eCO2 and TVOC for automated plant environment control
- Integrated real-time cloud visualization via ThingsBoard; implemented LoRa for long-range connectivity

Smart Energy Monitoring Web App | *JavaScript, HTML/CSS, IIoT* — 2024

- Built full-stack IIoT dashboard for real-time energy consumption tracking and interactive data visualization
- Integrated IoT sensor data with JavaScript frontend displaying live metrics and usage analytics

Water Pump Automation | *LoRa, ESP32, Relay, Sensors* — 2024

- Implemented LoRa-based long-range communication system for remote water pump control
- Used soil moisture sensors with relay integration for fully automated irrigation management

Cricket Match Prediction System | *Python, ML, JavaScript | Team Project* — 2026

- Collaborated to build ML-powered web app predicting match outcomes using historical data and statistical models

ERP System | *JavaScript, HTML/CSS | Hackathon Team Project* — 2026

- Built modular frontend for enterprise resource planning system with inventory and management dashboards

CERTIFICATIONS & ACHIEVEMENTS

- **Google AI-ML Virtual Training Program** – Completed (Google Certified)
- **Certificate of Appreciation for Mentoring Students in IoT Projects** – Invertis University
- **Python Programming & IoT Development** – Certification Completed
- Built 6+ end-to-end IoT and Web projects as a 2nd year student; delivered work for real clients