

# PURVESH DAVE

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**Full Stack / Python Developer**

**Portfolio:** <https://purveshdave.in>

## PROFESSIONAL SUMMARY

Backend-focused Full Stack Developer with ~4 years of experience designing and delivering real-time industrial monitoring systems using Python, Django, and Flask. Strong expertise in protocol-driven data acquisition, REST APIs, hardware integration, and interactive dashboards. Proven record of building production-grade solutions for mining and power-distribution enterprises with high reliability and performance.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript

**Backend:** Django, Flask, REST APIs

**Frontend:** HTML5, CSS3, JavaScript, Bootstrap, AJAX

**Databases:** PostgreSQL, MySQL

**Protocols & Domains:** Hardware integration, IoT, IEC 60870-5-104, CAN, Serial communication, logging, Real-time Monitoring

**Tools:** Linux, Git, GitHub

## PROFESSIONAL EXPERIENCE

### **Python Developer | Amnex Infotechnologies Pvt. Ltd., Ahmedabad (Feb 2022 – Present)**

- Led backend and full-stack development for large-scale industrial monitoring systems in mining and power-distribution domains.
- Designed Python services for real-time data acquisition, protocol handling, storage, and visualization.
- Built REST APIs, backend pipelines, and fault-tolerant local storage for mission-critical deployments.
- Worked directly with client engineering teams during on-site POC and production rollouts.
- Owned full lifecycle delivery: requirement analysis, architecture, development, testing, deployment, and production support.

### **Student Intern | Amkay Software Solution (Aug 2021 – Feb 2022)**

- Developed small-scale Django applications and assisted in backend logic and UI integration.
- Participated in testing, debugging, deployment, and technical documentation.

## PROJECTS

### Fleet Management System – NMDC

- Designed and developed an end-to-end fleet management platform integrating **GPS & industrial-grade field sensors** in **150+ vehicles**, handling **real-time telemetry, SOS events, and health diagnostics** using heterogeneous protocols.
- Implemented telemetry ingestion, validation, and normalization pipelines processing **~100–200K records/day**, with **fault-tolerant local storage and delayed sync** during network outages.
- Built secure REST APIs and two-way communication with the Central Command Center.
- Engineered SOS detection, real-time vehicle health monitoring, and alerting pipelines.
- Developed interactive dashboards for live fleet status, telemetry, and alerts, resulting in approximately **40% increase in operational productivity** and **~60% reduction in vehicle collision incidents for the client**.

### Local Data Monitoring System (LDMS) – MSEDCL

- Developed production-ready monitoring system using Django and Flask both with IEC 60870-5-104 integration.
- Built high-frequency data pipelines (~1-second accuracy) for **1000+ substations**.
- **Performed on-site POC** deployments with multiple RTU vendors ensuring protocol compatibility and system stability.
- Implemented **dynamic Single Line Diagrams**, live dashboards, historical trends, and energy flow aggregation, resulting in **~98% reduction in development & onsite configuration time** and **~85% cost savings for the company**.

## EDUCATION

Bachelor of Engineering (B.E.) in Information Technology

SAL College of Engineering, GTU

CGPA: 7.6 / 10 | Year of Graduation: 2022

## LANGUAGES

Gujarati (Native), Hindi (Fluent), English (Professional Working Proficiency)

## SYSTEM DESIGN & ENGINEERING HIGHLIGHTS

- Designed modular backend architecture separating data ingestion, processing, storage, and visualization layers.
- Implemented monitoring, retry, and synchronization mechanisms to handle unstable field network conditions.
- Built scalable real-time pipelines with ~1-second refresh accuracy for live monitoring dashboards.