

# Parth Kothawade

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## SUMMARY

Data analyst skilled in Python, SQL, and Excel with hands-on experience in data cleaning, EDA, dashboarding, and automation. Adept at transforming raw datasets into insights through statistical analysis, KPI tracking, and visualisation using Plotly, Tableau, and Excel. Experienced in building data pipelines, analysing sensor and operational data, and creating automated reporting workflows that improve decision-making and efficiency.

## EXPERIENCE

### Technology & Data Intern

Moodale (Digital Marketing Firm)

May 2025 - June 2025

- Created and maintained Excel dashboards to track weekly operational KPIs for leadership.
- Automated weekly reporting tasks using pivot tables & formulas, reducing manual effort by **40%**.
- Used SQL queries for data extraction & validation, improving reporting accuracy by **~30%**.
- Documented process workflows & requirements for smoother internal reporting.
- Built simple data quality checks that accelerated error identification in weekly reports.

## PROJECT

### IoT Data Analytics Dashboard (Flask, MySQL, NumPy, Pandas, Plotly)

[github.com/TechieParth2310/IOT\\_ANALYTICS](https://github.com/TechieParth2310/IOT_ANALYTICS)

- Real-time analytics platform for sensor insights and anomaly detection.
- Processed **50k+ sensor readings** to analyse trends, usage patterns, and anomalies.
- Applied z-score & rolling-window methods to detect abnormal readings, improving anomaly accuracy by **30%**.
- Built ETL workflows using Pandas, reducing data processing time by **25%**.
- Created interactive Plotly dashboards visualising KPIs, time-series trends, and anomaly insights.

### Hospital Management System (Flask, SQLite)

[mediflow-dbn1.onrender.com/](https://mediflow-dbn1.onrender.com/)

- Data workflows for medical records & scheduling insights.
- Designed structured tables for appointments, user data, and records, ensuring clean and consistent datasets.
- Analyzed appointment demand patterns and reduced booking conflicts using real-time availability logic.
- Developed dashboards summarising daily bookings, user activity, and workflow KPIs.
- Built automated reminders, improving patient/doctor workflow efficiency by **50%**.

### AI-Based Anomaly Detection in Surveillance Videos (Python, Flask)

[github.com/TechieParth2310/video-classification-womens-safety](https://github.com/TechieParth2310/video-classification-womens-safety)

- Visual data analysis for detecting abnormal activities.
- Processed **630+ videos**, extracting motion-based features via OpenCV & NumPy.
- Applied MobileNetV2 + Bi-LSTM, achieving **93% anomaly detection accuracy**.
- Generated risk scores and summary insights for flagged incidents to support security monitoring.

## EDUCATION

### Bachelor of Technology in Electronics and Communication

Vellore Institute of Technology, Vellore • Vellore • 2022-2026 • 8.48

### Higher Secondary Certificate (Class XII)

Namo RIMS Junior College, Pune • Pune • 2021 • 93.67%

### Secondary School Certificate (Class X)

Dr. Kakasaheb Purnapatre Madhyamik Vidyalaya, Chalisgaon • Chalisgaon • 2019 • 92.20%

## SKILLS

**Programming:** Python (Pandas, NumPy), SQL, C++, HTML, CSS (Basics), Javascript

**Data Analytics:** EDA, Data Cleaning, Statistical Analysis, KPI Tracking, Reporting Automation

**Visualization:** Excel (Pivot Tables, Dashboards), Plotly, Matplotlib, Seaborn, Tableau

**Databases:** MySQL, SQLite (Joins, Aggregations, Query Optimization)

**Machine Learning (Basics):** OpenCV, Time-Series Analysis, Anomaly Detection

**Tools:** Git, GitHub, VS Code, Postman, Quoder, Cursor