

FARDIN IMRAN SHAIKH

Mumbai, India | +91 8928879479 | fardeenshaikh8433@gmail.com | [Linkedin](#) | fardinsk25.github.io/portfolio/

PROFESSIONAL SUMMARY

Data-driven technology professional with 2+ years of experience building real-time monitoring systems, sensor data pipelines, and analytical dashboards. Proficient in SQL, Python, Power BI, and Excel for data cleaning, KPI tracking, trend analysis, and reporting automation. Experienced in transforming raw operational and IoT datasets into actionable insights through structured dashboards, analytical reporting, and performance monitoring systems. Strong background in process optimization, issue resolution, root cause analysis, and data validation, with hands-on experience delivering end-to-end data-focused solutions.

TECHNICAL SKILLS

Data Analysis & Reporting: Power BI (Dashboards, KPI Tracking, DAX) | SQL (SELECT, JOIN, GROUP BY, Aggregations, Subqueries) | Python (Pandas, NumPy, Data Analysis) | Excel (Pivot Tables, VLOOKUP, INDEX-MATCH, Charts, Conditional Formatting)

Data Management: MySQL | Database Design | ETL Pipelines | Data Cleaning & Validation | Data Quality Checks | Cloud Data Storage

Process & Operations: Process Monitoring | Workflow Management | SLA Adherence | Issue Identification & Troubleshooting | Root Cause Analysis | Exception Handling | Performance Tracking | Operational Controls | SOP Documentation

Analytics Coordination: Trend Analysis | KPI Monitoring | Status & Progress Reporting | Task & Timeline Management | Structured Documentation | Process Automation

IoT Technologies: Raspberry Pi | ESP32 | Arduino | MQTT | HTTP | SPI | UART | LoRa |

Tools & Platforms: Jupyter Notebook | Git/GitHub | VS Code | Figma | 3D Modelling Prototyping | ThingsBoard | Power BI | Grafana | Node-RED | ThingsBoard | ThingSpeak

PROFESSIONAL EXPERIENCE

IoT Development Engineer & Application Trainer

Grok Learning Pvt Ltd | Mumbai, Maharashtra, India | April 2024 – Present

Data Collection, Analysis & Reporting

- Designed and maintained real-time **data pipelines** processing **10,000+ sensor records daily** with **99.5% accuracy**, supporting operational monitoring and reporting.
- Developed **Power BI dashboards** to track **KPIs**, system performance metrics, and real-time data trends for **data-driven decision-making**.
- Performed **data analysis** using **Python (Pandas, NumPy)** and **SQL** to identify trends, detect anomalies, and improve system efficiency by **15%**.
- Built and optimized **MySQL databases** and **SQL queries** for **data extraction, aggregation, reporting, and historical data analysis**.
- Implemented **data validation** and **data quality checks**, reducing data inconsistencies by **20%** through automated monitoring workflows.

Process Monitoring & Issue Resolution

- Monitored end-to-end **operational workflows** across data collection and reporting systems, maintaining **99%+ system uptime**.
- Conducted **root cause analysis** on system failures and data gaps, improving system reliability from **94% to 99%+**.
- Tracked operational **KPIs** including uptime, latency, and error rates while generating **performance reports** aligned with **SLA requirements**.
- Resolved hardware-software integration and operational issues across **ESP32, Raspberry Pi, and cloud-based platforms**.

Coordination, Reporting & Documentation

- Delivered training programs to **1,500+ participants** across **50+ sessions** on IoT, Python, dashboards, and data visualization.
- Prepared **SOPs**, technical documentation, and **progress reports** for system implementations and operational activities.
- Collaborated with **cross-functional teams** to gather requirements, define deliverables, and support timely project execution.

Robotics Trainer

Atal Innovation Mission (NITI Aayog – Hope Foundation) | Mumbai | June 2023 – March 2024

- Managed **end-to-end execution of 15+ educational projects** from planning through delivery coordinating timelines, resources, and stakeholder expectations with **100% on-time completion**.
- Delivered **structured training programs to 500+ students** on robotics programming, sensor data collection, data logging, and analytical problem-solving.
- Developed **curriculum materials, SOPs, and structured documentation** integrating data collection, performance monitoring, and process-based problem-solving frameworks.
- Prepared **weekly progress and performance reports** for program leadership, tracking milestones, student outcomes, and quality metrics across concurrent workshops.

KEY PROJECTS

AgriConnect: Smart Farming Data & Analytics Platform | Python | SQL | Power BI | MQTT | MySQL

- Built an **end-to-end data pipeline** ingesting, validating, and storing **10+ sensor readings daily** (soil moisture, temperature, pH, TDS, Pollution, PM2.5) in MySQL with **99.8% data completeness** demonstrating scalable data management practices.
- Designed **Power BI dashboards** with real-time KPIs, historical trend visualizations, and automated threshold alerts reducing **manual reporting time by 80%** through pipeline automation.
- Performed **SQL-based historical data analysis** across 3 months of records to identify irrigation patterns, resulting in **25% resource efficiency improvement** through data-driven operational recommendations.

NestHawk: AI-Powered Operational Detection & Analytics System | Python | YOLOv8-TFLite | Raspberry Pi | SQL | IoT

- Engineered a **real-time detection and data logging system** with embedded analytics achieving **95%+ accuracy** and sub-200ms response time on edge hardware, demonstrating operational monitoring capabilities.
- Conducted **statistical analysis on 2,000+ detection events** to optimize model parameters, reducing false positives by **30%** through structured performance tuning and data-driven adjustments.
- Built **automated daily reporting pipelines** generating performance summaries and trend analyses providing structured operational insights for ongoing system monitoring.

SmartAssist Vision: Object Detection & Performance Tracking System | Python | YOLOv8 | IoT

- Implemented a **data tracking and event logging system** capturing detection events and usage patterns for **performance optimization** and operational analytics.
- Analyzed detection data using Python to identify **accuracy trends and operational patterns**, applying data-driven tuning to improve system reliability and performance reporting.

EDUCATION

Bachelor of Science in Information Technology | CGPA: 7.79 / 10

Smt. K.G. Mittal Institute of Management, IT & Research, Mumbai | 2020 – 2023

Relevant Coursework: Database Management Systems | Python Programming | Statistics

Higher Secondary Certificate (HSC) — Science & Electronics

Shri T.P. Bhatia Jr. College of Science, Mumbai | Completed March 2019

CERTIFICATION

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program – Forage | May 2026

[Certificate Link](#)