MUHAMMAD NAUFAL

Data Analyst | BI Analyst | SQL, Python, Tableau/Power BI | Reporting Automation & Data Pipelines

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github.com/FAL10000 | public.tableau.com/app/profile/muhammad.naufal7621/vizzes | kaggle.com/fal1000

SUMMARY

Data and BI analyst with 3+ years of experience converting satellite telecommunications operations and monitoring data into trusted KPIs, dashboards, and automated workflows. Skilled in SQL, Python, pandas/Polars, PostgreSQL, Tableau, Power BI, API extraction, and data validation.

CORE SKILLS

Data and BI: SQL, Python, pandas, Polars, PostgreSQL, Tableau, Power BI, Grafana, Excel Power Query/VBA, Git, Jupyter, Parquet
Analytics: ETL/API pipelines, data cleaning, transformation, joins, KPI reporting, dashboarding, validation, time-series analysis, RCA
Business: Requirements gathering, stakeholder reporting, executive dashboards, process improvement, SOPs, UAT, cross-functional delivery

PROFESSIONAL EXPERIENCE

PASIFIK SATELIT NUSANTARA - Jakarta, Indonesia
Service Operations - Data & Operations Analyst | *Jan 2024 - Present*

- Build dashboard-ready workflows from APIs and operational sources, transforming time-series data into performance and service-quality reporting.
- Develop Tableau and Grafana dashboards for operational monitoring, stakeholder reporting, and recurring KPI reviews.
- Use Python, SQL, Excel Power Query, and VBA to standardize extraction, cleaning, transformation, validation, and recurring operational reporting.
- Automated monthly reporting and reduced recurring manual reporting effort.
- Applied data-quality and reconciliation checks to reporting outputs and worked with operational stakeholders to define trusted KPIs.

PASIFIK SATELIT NUSANTARA - Jakarta, Indonesia
Assistant Project Manager - Satellite Network Deployment | *Jun 2022 - Jan 2024*

- Translated cross-functional requirements into acceptance criteria, deployment plans, testing/UAT, and handover documentation.
- Supported site acquisition and contract finalization; oversaw satellite network integration with documented quality checks.

PASIFIK SATELIT NUSANTARA - Jakarta, Indonesia
Project Controller - Satellite Network Deployment | *Jan 2022 - Jan 2024*

- Built structured progress, risk, dependency, decision, procurement, and action-item reporting for weekly governance across multiple workstreams.

PROJECTS

Operational Reliability Analysis - Operational BI / DMAIC

- Applied Lean Six Sigma/DMAIC and time-series analysis to identify recurring reliability patterns and prioritize areas for investigation.
- Translated analysis into management-ready recommendations to support process improvement and operational decision-making.

QuadLake Indonesia - Analytics Engineering / Geospatial BI Portfolio

- Built a reproducible geospatial analytics pipeline using Polars, GeoPandas, Shapely, and Parquet to process Microsoft Global ML Building Footprints for Indonesia.
- Designed Bronze/Silver/Gold data layers with validation checks, spatial joins, nearest-boundary recovery, and reconciled country, quadkey, province, and district outputs for Tableau reporting.

KarhutlaWatch Indonesia - Automated Geospatial Monitoring Dashboard

- Built a public Streamlit dashboard to monitor satellite-detected thermal anomalies across Indonesia, with province/district assignment, rolling 30-day trends, and persistent hotspot-cluster detection. Thermal detections are observations, not automatically confirmed wildfire incidents.
- Automated NASA FIRMS VIIRS data ingestion and geospatial processing every 3 hours using Python, Polars, DBSCAN, Parquet, and GitHub Actions, producing monitoring-priority rankings and interactive maps.

EDUCATION

Georgia Institute of Technology - M.S. in Analytics | Aug 2025 - Present
Universitas Brawijaya - B.S. in Electrical Engineering, GPA 3.3 | Aug 2017 - Jul 2021

CERTIFICATIONS & TRAINING

PL-300: Power BI Data Analyst Associate, 2026 | Lean Six Sigma Green Belt - Georgia Institute of Technology, 2026 | IELTS - British Council, 2025 | Tableau 2024 A-Z: Hands-On Tableau Training for Data Science