

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](https://www.kaggle.com/fal1000)

SUMMARY

Data and BI analyst with 3+ years of experience converting telecom 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 across 30,000+ terminals.

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 Zabbix/API and operational sources, converting large time-series datasets into terminal-level performance, traffic, signal-quality, and availability reporting.
- Develop Tableau and Grafana dashboards for rollout progress, partner performance, regional status, operational blockers, and recurring KPI reporting.
- Use Python, SQL, Excel Power Query, and VBA to standardize extraction, cleaning, transformation, joins, and reporting logic across 30,000+ terminals.
- Automated monthly terminal reporting from 2-3 days to under 3 hours and reduced recurring manual reporting effort by approximately 76%.
- Applied data-quality and reconciliation checks to telemetry-derived outputs and worked with operations, network, and field teams to define trusted KPIs.

PASIFIK SATELIT NUSANTARA - Jakarta, Indonesia

Assistant Project Manager - SATRIA-1 Ground Network Reference Terminals | Jun 2022 - Jan 2024

- Translated cross-functional requirements into acceptance criteria, rollout plans, testing/UAT, and handover documentation across 103 satellite beams.
- Supported site acquisition across 98 cities and finalized 95 contracts; oversaw integration of 95 C-band and 125 Ka-band terminals with documented quality checks.

PASIFIK SATELIT NUSANTARA - Jakarta, Indonesia

Project Controller - SATRIA-1 Ground Network | Jan 2022 - Jan 2024

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

PROJECTS

Satellite Terminal Outage Analysis - Operational BI / DMAIC

- Analyzed one year of Zabbix telemetry to quantify outage minutes by beam/month; found top 10 beams contributed ~21% of outages and longest 10% of events contributed ~47% of outage minutes.
- Converted analysis into management-ready recommendations for escalation of ownership, severe-outage playbooks, spare readiness, and follow-up controls.

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.
- 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.

SNT Workman - Internal Workflow Analytics Platform

- Designed a workflow platform concept to consolidate tasks, forms, reports, user terminal analytics, and action-item follow-up that were previously scattered across spreadsheets, chat, and manual trackers.
- Framed requirements around visibility, traceability, role-based access, form-based reporting, and operational follow-up rather than one-off dashboard delivery.

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