

# Nadhif Faris Andrifa Spaer

+62 811-1119-363 | [nadhifspaer01@gmail.com](mailto:nadhifspaer01@gmail.com) | [linkedin.com/in/nadhifspaer/](https://www.linkedin.com/in/nadhifspaer/) | [github.com/nadhifspaer](https://github.com/nadhifspaer) | [nadhifspaer-portfolio](#) |

## PROFESSIONAL SUMMARY

Computer Science graduate with hands-on experience across analytics, machine learning, and Generative AI/LLM solution development, along with direct exposure to the Telecommunications industry through an enterprise data analytics internship at Telkomsel. Skilled at translating messy, real-world business data into validated datasets, dashboards, and AI-enabled systems that stakeholders can act on. Comfortable working across the full delivery lifecycle: data quality diagnosis, model/pipeline design, cloud deployment (Azure, AWS), and communicating findings to both technical and non-technical audiences.

## PROFESSIONAL EXPERIENCE

### Data Analyst Intern

Jul 2025 – Aug 2025

*Telkomsel, Enterprise Digital Service Delivery*

*Jakarta, Indonesia*

- **Cut manual data-integration effort by ~95%** (from 1–2 hours to under 5 minutes per cycle) by designing and implementing a unified consolidation workflow for ~4,800 sales pipeline records sourced from Area Account Manager (AAM) and Corporate Account Manager (CAM) systems.
- **Strengthened data reliability for enterprise decision-making** by auditing and correcting data quality issues such as mismatched IDs, incorrect date formats, missing fields, and SLA formula errors, then presenting validated, analysis-ready datasets to 6 senior stakeholders.
- **Enabled real-time visibility into revenue and delivery performance** by building 3 interactive Looker Studio dashboards tracking revenue pipeline, project completion, and project trend metrics for enterprise digital solution reporting.

## PROJECTS

### Enterprise ESG Intelligence Platform | *Python, FastAPI, Next.js, Qdrant, OpenAI, Docker*

2026

- **Architected a production RAG pipeline** delivering consistent, auditable ESG compliance evaluation across 48 rules spanning two frameworks (GRI, EDGB) and all three E/S/G categories via a deterministic, checklist-driven pipeline, directly applicable to Responsible AI and AI-governance use cases.
- **Engineered a hybrid dense + BM25 retrieval system** with local cross-encoder reranking on Qdrant to handle mixed English/Bahasa Indonesia disclosures, then separated deterministic evidence retrieval from a downstream LLM-based status assessor to keep checklist coverage fixed and auditable while still using model judgment to classify each requirement as disclosed, partially disclosed, or not found.

### End-to-End ML Pipeline for 5G Network Anomaly Detection | *Python, Kafka, MLflow, Prometheus, Grafana*

2026

- **Architected an unsupervised anomaly detection pipeline** for heterogeneous 5G network KPIs, scoring an Isolation Forest against per-cell, per-slice rolling deviation baselines across 80 segments (PR-AUC 0.181 vs. 0.07 no-skill baseline), then replaced a naive threshold rule requiring 5.8x the available review capacity with a continuous, tunable score calibrated to a 36-alert/day operations budget.
- **Delivered a verified, end-to-end real-time serving system** streaming KPI readings through Kafka, FastAPI, and a live Streamlit dashboard, orchestrated via Docker with Prometheus/Grafana instrumentation, confirmed via a 994-record replay producing 24 alerts each paired with per-feature root cause ranking.

### Real-Time Fraud & Risk Scoring System | *Python, LightGBM, FastAPI, Kafka, SHAP*

2026

- **Built an end-to-end fraud detection pipeline** on a 6.3M-transaction simulated e-wallet dataset by engineering leakage-safe temporal features, screening for dataset-generator artifacts that would otherwise inflate performance, and selecting a single, interpretable LightGBM classifier with SHAP-based feature attribution, mirroring the validation and transparency rigor required in regulated financial risk engagements.
- **Designed a cost-based threshold optimizer** weighing prevented fraud loss against false-positive customer friction, translating model output into a data-driven basis for setting fraud review thresholds and framing the trade-offs in plain business terms for non-technical stakeholders.

## CORE COMPETENCIES & TECHNICAL SKILLS

**Data Science & Analytics:** Python, SQL, Pandas, NumPy, Scikit-learn, causalml, Statistical Analysis, Predictive Modeling

**Machine Learning & Generative AI:** PyTorch, TensorFlow, Hugging Face, LLM-based Solutions, AI Agents

**LLM / Retrieval & Deployment:** Qdrant, Hybrid Search (Dense + BM25), Cross-Encoder Reranking, FastAPI, Docker

**Visualization & Cloud:** Power BI, Looker Studio, Streamlit, Microsoft Azure, AWS, Git

## EDUCATION

### Telkom University

Bandung, Indonesia

*Bachelor of Science in Computer Science – GPA: 3.79 (cum laude)*

*Aug 2022 – Apr 2026*

- Member, Google Developer Student Group on Campus
- Author & Presenter, International Conference at Beyond Technology Summit
- Publication, [IEEE](#): Timestamp-Based Sentiment Analysis of Public Perception toward Persatuan Sepakbola Seluruh Indonesia (PSSI) on Social Media X during 2023–2025 Using a Transformer Model

## CERTIFICATIONS & TRAINING

---

**Microsoft**: Azure AI Engineer Associate

**Harvard**: CS50 Programming with Python

**Anthropic**: Building with Claude API

**Udemy**: Machine Learning A-Z [2026]: ML, DL, AI with AWS, Python & R

**IBM**: Databases and SQL for Data Science with Python