

# Antonius Valentino

Data Analyst · Business Intelligence Analyst

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## SUMMARY

Data & BI Analyst with hands-on experience building end-to-end analytical systems across fintech, sports analytics, and business operations. Work spans the full stack: SQL and Python pipelines, Power BI and Streamlit dashboards, KPI layer design, and ML models built to be explained to the people who use them. Practical focus on data integrity; clean train/test splits, business-grounded metrics, and decisions that translate into numbers stakeholders can act on.

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## SKILLS

**BI & Visualization:** Power BI (DAX, data modeling, supply chain & operational dashboards), Streamlit, Plotly, Matplotlib

**Data & Analytics:** SQL, Python, Pandas, NumPy, feature engineering, KPI design, business metric interpretation

**Machine Learning:** XGBoost, LightGBM, Scikit-learn, Optuna, SHAP (explainability), SMOTE, time-series validation

**Database & Backend:** MySQL, ETL workflow, OLTP/OLAP design, Pentaho Data Integration, Next.js API Routes

**Tools:** Ollama, Git, Docker, FastAPI, Figma, VS Code

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## PROJECTS

### WHSER — Laundry Management & BI Platform

*Mar 2025 – Nov 2025*

- Designed dual-layer architecture separating real-time operational workflows (POS, 12-status state machine, inventory tracking) from immutable analytical snapshots; keeping transactions fast and analytics consistent.
- Built automated KPI computation layer covering 8 business metrics (SLA compliance, rewash rate, contribution margin, capacity utilization, and 4 others) with baseline comparison and significance flagging.
- Integrated local LLM (Gemma 3 via Ollama) in a human-in-the-loop recommendation workflow; owner reviews AI-generated suggestions before tasks are assigned to staff.

### Predictive Credit Scoring — Indonesian MSMEs

*Mar 2026 – Apr 2026*

- Built end-to-end credit risk pipeline on 150K records using XGBoost with Optuna tuning, and Streamlit deployment.
- Achieved 86.4% AUC-ROC and detected 55% of defaults pre-approval; optimized decision threshold (0.5354) to reflect asymmetric business costs; saved as a version-controlled JSON artifact adjustable without model retraining.
- Strict data leakage prevention: RobustScaler and SMOTE applied only on training set. Every credit decision accompanied by SHAP force plot; readable by loan officers without data science background.

### xFlair — Nutmeg Frequency Prediction (Football Analytics)

*Apr 2026 – May 2026*

- Processed 522K+ StatsBomb events to predict per-match nutmeg frequency as a flair proxy for broadcast and fantasy sports use cases.
  - Identified and resolved mathematical tautology in initial player-level formulation (target derivable from two features); redesigned to player-match time-series with shift(1) rolling features; eliminating leakage and improving MAE by 27.9% over baseline.
  - Built three-page Streamlit app (Flair Index dashboard, Player Lab with SHAP explainability, Model Integrity page with calibration charts and error analysis).
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## WORK EXPERIENCE

### Practicum Assistant · Telkom University

*Sep 2023 – Jun 2025*

- Facilitated sessions across 4 Information Systems courses: Database Systems, Data Warehouse & Business Intelligence, Data Mining, and Accounting Information Systems.
- Produced practicum materials, assessed assignments and project deliverables, and maintained academic consistency across semesters.

### Internship — Operations & Workflow · Vision+

*Aug 2024 – Dec 2024*

- Analyzed recurring scheduling delays and operational bottlenecks in content production workflows; identified patterns in manual coordination failures.
  - Developed a prototype workflow automation system to improve task tracking, reduce coordination gaps, and provide operational visibility across teams.
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## EDUCATION

### Bachelor of Information Systems · Telkom University

*Sep 2021 – Jan 2026*

- Teaching Assistant across 4 courses and Co-authored IoT-Based Palm Oil Quality Information System module; officially registered with Indonesia's Directorate General of Intellectual Property (DJKI), Feb 2024.