

# AFRIDHO

## TAVADHU

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### JUNIOR DATA ANALYST

DATA ANALYST & ML ENGINEER Machine Learning practitioner focused on building production-grade data pipelines and business-critical models. Proven track record of identifying \$22.4M in revenue uplift via customer segmentation. Skilled in MLOps (MLflow, Docker), automating workflows (GitHub Actions), and deploying scalable Python solutions.

### EXPERIENCE

#### Machine Learning Cohort (Independent Study)

Dicoding Indonesia & Accenture Aug 2025 – Present

- Completed an intensive 900+ hour curriculum focused on end-to-end ML deployment.
- Served as ML Deployment Lead for the capstone team, orchestrating the integration of Scikit-Learn models into a user-facing Streamlit application.

#### Junior Frontend Developer & UI/UX Intern

PT. Teknologi Aplikasi Sejahtera Dec 2024 – April 2025

- Collaborated with backend teams to integrate REST APIs and handle JSON data structures for responsive web interfaces.
- Translated complex user requirements into technical specifications, reducing development rework.

### EDUCATION

#### Bachelors Degree in Informatics Engineering

Universitas Stikubank, Exp. Sep 2026

### PORTFOLIO

[www.stdhoom.neocities.org](http://www.stdhoom.neocities.org)

### SKILLS

- Languages: Python (Advanced), SQL, Bash/Shell Scripting.
- Data & ML: Pandas, NumPy, Scikit-Learn, TensorFlow, Matplotlib, Seaborn.
- Tools & DevOps: Git, Docker, MLflow, Neovim, VS Code, Linux (WSL2/Ubuntu).
- Concepts: ETL Pipelines, Clustering (K-Means), SVM, Network Security, Hyperparameter Tuning.

### LANGUAGES

- Indonesia (Native)
- English (Intermediate)

## KEY PROJECTS



### End-to-End MLOps Pipeline: Telco Customer Churn

Asah led by Accenture x Dicoding

Dec 2025

- Engineering: Architected a production-ready pipeline using MLflow for experiment tracking and GitHub Actions for automated testing (CI/CD), moving beyond static notebooks.
- Performance: Achieved 80.5% Recall on high-risk customers, prioritizing revenue retention over simple accuracy.
- **Tech Stack:** Python, Docker, Scikit-Learn, MLflow, Bash.

### Customer Segmentation & Business Strategy Analysis

Asah led by Accenture x Dicoding [Capstone Projects]

Dec 2025

- Business Impact: Engineered a K-Means clustering model to segment retail customers, identifying a \$22.4M revenue uplift potential through targeted marketing strategies.
- Technical Execution: Built an end-to-end data pipeline: cleaned 500k+ transaction rows, handled outliers, and optimized cluster selection (Elbow Method/Silhouette Score).
- Delivery: Deployed the model using Streamlit and Docker; presented actionable insights on "High-Value" vs. "Churn-Risk" segments to stakeholders.
- **Tech Stack:** Python, Scikit-Learn (K-Means), Streamlit, Docker, Pandas, Seaborn.

### Network Intrusion Detection System

Thesis

Aug 2025

- Focus: Cyber-Security Analytics using CIC-IDS-2017 Dataset.
- Methodology: Developed a hybrid detection engine using PCA for dimensionality reduction and Support Vector Machine (SVM) for classification.
- Result: Optimized feature selection to reduce training time while maintaining high detection accuracy for DDoS and Port Scan attacks.
- **Tech Stack:** Python, Scikit-Learn (PCA & SVM), NumPy, Pandas, Matplotlib.

### Contactless Ordering Platform

Freelance

May 2025

- System Architecture: Architected a full-stack digital ordering system using Next.js (App Router) and TypeScript, enforcing strict type safety to minimize runtime errors in a high-turnover environment.
- Database & Security: Designed robust MongoDB schemas (Mongoose) for inventory management and implemented NextAuth.js (JWT) to secure the admin dashboard against unauthorized access.
- Performance: Engineered a dual-interface system (Client vs. Admin) with server-side rendering for dynamic routing, optimizing load times for mobile QR-code users.
- **Tech Stack:** Next.js (App Router), TypeScript, MongoDB (Mongoose), NextAuth.js, Tailwind CSS.