

Johannes Baptista Adiatmaja Pambudi

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WORK EXPERIENCE

Sigma Solusi

Aug. 2024 – Present

Data Scientist

- Architected the foundational phase of a **Dockerized RAG-based chatbot** (ChromaDB, sentence-transformers) for a B2B platform, establishing the baseline for **semantic product search** and robust **intent classification** (**35+ types**).
- Engineered a specialized FAQ model for **WhatsApp deployment**, utilizing **knowledge distillation** and **LoRA fine-tuning** (Llama-3.1 70B into Gemma-2 9B) to reduce inference latency while maintaining accuracy.
- Built an **MLOps retraining pipeline** via n8n, enabling 10+ iterative rounds with rigorous **A/B validation** across 154 structured test scenarios.
- Developed end to end **demand forecasting pipelines** (PyTorch, SQL) and designed **BI solutions** including warehouse simulations and stock balancing systems to optimize operational efficiency and reduce carrying costs.

Beehive Drones

Aug. 2022 – Jan. 2023

Machine Learning Engineer - Internship

End-to-end aerial imagery pipeline for carbon value estimation; TensorFlow model achieved **93% accuracy improvement** over SVR baseline.

EDUCATION

Universitas Kristen Duta Wacana

2024

Bachelor of Science, Informatics. 3.75 GPA

Thesis: Gender Classification from Fingerprints using Gabor Filters, achieved **7% F1-score improvement**.

github.com/adiatmaja/GenderClassification

SKILLS

Languages & DB: Python, SQL, Java, PHP, MySQL, ChromaDB

ML/DL: PyTorch, TensorFlow, Keras, scikit-learn

Tools: Pandas, NumPy, Git, Streamlit, n8n, Docker

Dev: AI-Assisted Development, Automated Code Review, TDD

Focus: Forecasting, LLM Fine-tuning, RAG, Knowledge Distillation, MLOps, Deep Learning

CERTIFICATIONS

TensorFlow Developer Certificate

2023

[Credential ID 86185588](#)

PROJECTS

ASAHI (Aplikasi Sortir Sampah) - Waste Classification App

May 2023 – Jun. 2023

github.com/ASAH-Bangkit-2023/ASAH-Project

Achieved **94% accuracy (+6.1%)** using MobileNetV2; optimized for real-time mobile inference on Android.