

Johannes Baptista Adiatmaja Pambudi

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WORK EXPERIENCE

Sigma Solusi

Aug. 2024 – Present

Data Scientist

- Built end-to-end forecasting pipelines (PyTorch, SQL) for demand/sales prediction, enabling real-time retrieval for predictive analytics workflows.
- Designed BI solutions including a **stock balancing system** using sales forecasts and **warehouse simulations** to optimize locations, reducing carrying costs and improving distribution efficiency.
- Built a **RAG system** using ChromaDB with AI knowledge distillation (teacher-student architecture), **automated via n8n** and **containerized with Docker** for deployment, creating a lightweight student model with company-specific knowledge.

Beehive Drones

Aug. 2022 – Jan. 2023

Machine Learning Engineer - Internship

- Developed an end-to-end data pipeline to process and extract features from aerial imagery for carbon value estimation.
- Engineered a deep learning model using TensorFlow that achieved **0.52 predictive accuracy, a 93% improvement** over the 0.27 baseline SVR model.

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

Focus: Forecasting, RAG, Knowledge Distillation, BI, Deep Learning

CERTIFICATIONS

TensorFlow Developer Certificate

2023

[Credential ID 86185588](https://www.tensorflow.org/certification/tensorflow-developer)

PROJECTS

ASAH (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.