

Irsyad Zulfikar

AI / Machine Learning Engineer

South Jakarta, Indonesia

✉ zulfikarirsyad@gmail.com linkedin.com/in/irsyadzulfikar github.com/sadisdad

Summary

AI Engineer shipping computer vision, LLM, and MLOps systems—from training pipelines to monitored inference on GKE and GCP.

Experience

AI Engineer

March 2025 – Present

ENB Mobile Care

Architected a production smartphone-grading pipeline of six detection, classification, and segmentation models. Led the migration from Docker Swarm to GKE, tuned per-service autoscaling, built Vertex AI training pipelines with MLflow, and added inference monitoring with VictoriaMetrics and Grafana. Benchmarked 10,000+ samples across multiple YOLO generations and shipped real-time OCR for paperless trading-machine transactions.

AI Engineer

April 2024 – December 2024

Lawencon Internasional

Built an LLM-powered CV parsing and scoring pipeline with LlamaIndex and Groq, reducing manual screening time by 50%. Developed RAG assistants with Flask and MongoDB, a live coding assessment platform, and recruitment analytics pipelines for HR teams.

Junior AI Engineer

August 2023 – February 2024

Indonesia AI

Developed vehicle detection and counting models with 86% validation accuracy and a waste-classification CNN with 82% precision on hazardous objects. Defined annotation and preprocessing standards to improve generalization across varied data conditions.

Selected Projects

Axiom Alpha

2026 – Present

Equity-analysis platform with multi-factor scoring, backtesting, market heatmaps, and screening for US and Indonesian stocks. Built the Django backend, frontend, and cloud deployment.

Django · Python · PostgreSQL · TypeScript

Crossed-Eye Detection

2026

Computer vision pre-screening system for strabismus using facial landmarks and deep-learning classification to flag misaligned gaze axes.

Python · OpenCV · PyTorch · MediaPipe

AI Recruitment2024 – 2025

NLP and RAG recruitment pipeline using OpenAI embeddings, Pinecone, FastAPI inference, and GPT cost analytics.

Python · FastAPI · OpenAI · Pinecone · Docker · MLflow

YOLOv11 Detection API2025

Dockerized FastAPI service for YOLOv11 inference, annotated-image output, and static result delivery.

FastAPI · YOLOv11 · Docker · Uvicorn · Python

Skills

Core: Python, TypeScript, SQL

Ai / Ml: PyTorch, TensorFlow, OpenCV, YOLO, ONNX, Scikit-Learn

Backend: FastAPI, Flask, Django, REST APIs

Mlops & Cloud: Docker, Kubernetes (GKE), GCP Vertex AI, MLflow, GitLab CI/CD, VictoriaMetrics, Grafana

Data: PostgreSQL, MongoDB, Pinecone

Education & Credentials

Telkom University

Bachelor of Computer Science · GPA 3.8 / 4.0

- Building Systems with the ChatGPT API
- Prompt Engineering with Llama 2 & 3
- Supervised Machine Learning: Regression and Classification
- Full Stack Data Science Academy