

(+82) 10-2507-2134  
Seoul, South Korea  
aldoalfi02@gmail.com

# Alfi Aldo

## Data Scientist / MLOps Engineer

Portfolio: [alfialdo.com](https://alfialdo.com)  
[github.com/alfialdo](https://github.com/alfialdo)  
[linkedin.com/in/alfialdo](https://linkedin.com/in/alfialdo)

### EDUCATION

**Kookmin University** Sept 2024 — Sept 2026 (expected)  
*Master of Science in Electrical Engineer (GPA: 4.42/4.5)* Seoul, South Korea

**University of Indonesia** Aug 2018 — Aug 2022  
*Bachelor of Engineering in Computer Engineer (GPA: 3.72/4.0)* Depok, Indonesia

### TECHNICAL SKILLS

|                         |   |
|-------------------------|---|
| <b>Tech Stack</b>       | Python, Git, Bash, Flask/FastAPI, OpenCV, ROS2, Multiprocessing           |
| <b>MLOps</b>            | CI/CD, VertexAI, Docker, Google Cloud, DVC, Terraform                     |
| <b>Data Science</b>     | E-commerce, Product Recommendation, Image Processing, Feature Engineering |
| <b>Data Engineering</b> | SQL, BigQuery, Airflow, Pub/Sub, ETL, Scraping/Crawling, Sensor Fusion    |
| <b>Communication</b>    | English (Fluent), Korean (Intermediate), Indonesian (Native)              |

### PROFESSIONAL EXPERIENCE

**Computer Vision Researcher** Sep 2024 — Present  
*WicomAI Lab Kookmin University* Seoul, South Korea

- Developed lightweight Dynamic Convolution Encoder-Decoder model based on self-custom multimodal dataset for drone instance segmentation with testing AP of 87% deployed on edge device.
- Created testbed system using ROS2 to fused sensors (LiDAR + Camera + Radar) to localized drone and estimate distance with  $\pm 11$  cm error within 20 m distance.
- Improved image processing algorithm to perform object tracking from 30 FPS to 220 FPS.
- Led Computer Vision team consist of 5 graduate students to perform research on topic such as: Point Cloud Data processing, Panoptic Segmentation, and Drone SLAM.

**Data Scientist** Mar 2022 — Jan 2025  
*Hypefast (Largest House of Digital Native Brands in SEA)* Jakarta, Indonesia

- Worked alongside Data Engineer, Product Manager, Business Intelligence teams to improve brand's business performance.
- Developed collaborative and content-based product recommendation systems (data pipeline, AI model, dashboard) using brand's e-commerce sales data that increase brand's GMV by 6%.
- Built automated MLOps pipelines using Airflow, DVC, and VertexAI for data scientist team model experiment, A/B testing, and deployment in GCP infrastructure.
- Visualized analytics data using Metabase to provide insights for finance, marketing and brands teams.
- Fine-tuned instance segmentation model to perform fashion categories masking through product image with mAP 45.7% from 46 different apparel categories.
- Created OCR data extraction pipeline to collect more than 500,000 customers profile data (name, address, phone number) for sales lead from the shipping labels.
- Optimized python script to scrape hundreds of thousands brand's competitor products through e-commerce websites.

**Data Scientist** May 2021 — Sep 2021  
*NTUST TEEP 2021 Internship Program* Taipei, Taiwan

- Used Pandas and Seaborn to analyzed and visualized user behaviour of smart water dispenser at NTUST
- Developed Stacked LSTM-based model to process time series data and predict water dispenser usage with 64% performance (RMSE) compared to baseline method.

### PROJECTS

**Enterprise-scale Data Platform and Warehouse Design** Dec 2023 — Apr 2024

- Designed data warehouse scheme separating raw data collections and business logic for 11 brands in fashion or health & beauty categories that accelerate data deliveries from days to real-time.
- Built data team internal tooling package and marketplaces (Shopee, Tiktok Shop, Lazada, Tokopedia) Open API integration deployed in Cloud Run.
- Created dozens of end-to-end batching and streaming ETL pipelines with automated data backfill and alerting system using Airflow, Pub/Sub, and BigQuery to fulfill business needs.