HAFIDH MUHAMMAD AKBAR

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Surakarta, Indonesia

SUMMARY

Data Engineer at Akuntplus with a solid foundation in ETL processes, data pipeline development, and data modeling. A recent Informatics graduate from Universitas Sebelas Maret, experienced in designing and optimizing end-to-end data workflows. Proficient in Python and SQL, with a strong grasp of database systems, data warehousing, and cloud-based tools. Adept at transforming raw data into reliable, structured formats to support analysis and decision-making. Committed to building scalable, efficient data infrastructure that drives meaningful business impact. Beyond the role, has a personal interest in artificial intelligence, especially in areas like computer vision and natural language processing.

WORK EPERIENCES

AkuntplusJakarta, IndonesiaTeaching Assistant (Database Systems and Programming Basics) - ContractJun 2025 - Now

• Designed and maintained ETL pipelines to extract, transform, and load data from multiple sources into centralized data warehouses

- Developed and optimized SQL queries for efficient data extraction, transformation, and reporting
- Implemented data validation and quality checks to improve reliability and trust in business data
- Documented data processes and created clear handover materials to support team scalability and maintainability

Bangkit Academy 2023

Remote

Machine Learning Engineer (Project-Based Experience) – Internship

Aug 2023 - Jan 2024

- Developed NutriMate, a full-stack nutrition application that calculates daily calorie needs and generates personalized meal plans using machine learning
- Engineered and optimized recommendation system using collaborative filtering techniques (TensorFlow, Python, Javascript)
- Presented technical solutions to industry experts, receiving recognition for innovative approach to personalization

CERTIFICATION

TensorFlow Developer Certificate	Mar 2024 – Mar 2029
Google for Developer	
Bangkit Academy 2023: Machine Learning	Jan 2024
Bangkit Academy	
TensorFlow: Data and Deployment	Nov 2023
Coursera	
Structuring Machine Learning Projects	Nov 2023
Coursera	
DeepLearning.AI TensorFlow Developer	Oct 2023
Coursera	
Machine Learning Specialization	Oct 2023
Coursera	
Mathematics for Machine Learning and Data Science	Sep 2023
Coursera	

EDUCATION

Universitas Sebelas Maret

Surakarta, Indonesia Jul 2021 – Apr 2025

Bachelor of Informatics

GPA: 3.93/4.0

Thesis: Ultrasound Image Segmentation for Breast Cancer Detection Using Double Half-UNet with Attention Mechanism

ORGANIZATION

UKM Penelitian dan Pengabdian Masyarakat (P2M)

Surakarta, Indonesia

Member

Jan 2025 - Apr 2025

Participated in workshops, proposal writing, and collaborative projects involving data and technology, while also supporting knowledge-sharing sessions and mentoring junior members

AWARDS

1st Place of Academic Competition of Data Science 2024 (Scientific Paper Category)

Oct 2024

Created "Pixel Attention Half-UNet for Satellite Image Building Detection", a computationally efficient model for satellite image analysis with 70.9% mIoU accuracy

Finalist of Gemastik XVII 2024 (Data Mining Category)

Sep 2024

Ranked Top 6 nationally in predicting university tuition fee categories (UKT) using machine learning based on socioeconomic data analysis

1st Place of 11th Airlangga Ideas Competition 2023

Nov 2023

Designed "Improved Factorized Residual U-Net" for medical image segmentation, achieving 90.24% mIoU through optimized feature extraction modules

1st Winner & Best Paper of Gemastik XVI 2023 (Scientific Paper Category)

Sep 2023

Developed "AGU-NET: Attention Ghost U-Net for Biomedical Image Polyp Segmentation", an attention-based deep learning model achieving 86.52% mIoU on endoscopic images

PUBLICATIONS & CONFERENCES

Automated Building Segmentation Using Half-UNet with Multi-Scale Residual

Jun 2025

Attention and Self-Calibrated Pixel Attention

Publisher: IEEE

Breast Ultrasound Image Segmentation with Multidimensional Attention and Spatial-

Jun 2025

Channel Squeeze-and-Excitation Block

Publisher: IEEE

Improved Factorized Residual U-Net for Biomedical Polyp Segmentation

Jan 2025

Publisher: IEEE

SKILLS

Hard Skills: Python, TensorFlow, PyTorch, SQL, SSIS, Java, Machine Learning, Deep Learning, Data Analysis,

Database Management, Data Visualization

Soft Skills: Leadership, Communication, Problem Solving, Team Collaboration

Software Skills: Jupyter Notebooks, VS Code, Git, Docker, Tableau, Google Colab

LANGUAGES

Indonesia - Native

English - Advanced