

HAFIDH MUHAMMAD AKBAR

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Jakarta, 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 EXPERIENCES

Akuntplus

Jakarta, Indonesia

Data Engineer - Contract

Jun 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

Bachelor of Informatics

GPA: 3.93/4.0

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

Surakarta, Indonesia

Jul 2021 – Apr 2025

ORGANIZATION

UKM Penelitian dan Pengabdian Masyarakat (P2M)

Member

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

Surakarta, Indonesia

Jan 2025 - Apr 2025

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

ERCU-Net: Advancing Skin Lesion Segmentation Through Efficient and Accurate Deep Learning Model

Jul 2025

Publisher: [IEEE](#)

CPMA-Net: A Lightweight Network Based on Half-UNet with Multiscale and Attention Mechanisms for Nuclei Segmentation

Jul 2025

Publisher: [IEEE](#)

Attention Half-Unet: Efficient Model for Colon Histology Image Segmentation in Colorectal Cancer Detection

Jul 2025

Publisher: [IEEE](#)

CMRA-Net: An Efficient Architecture for Early Detection of Breast Cancer Through Ultrasound Image Segmentation

Jul 2025

Publisher: [IEEE](#)

SEPA-Net: Segmentation Model for Breast Cancer Detection in Ultrasound Imaging

Jul 2025

Publisher: [IEEE](#)

SEMAR-Net: An Efficient Deep Learning Model for Automatic Colorectal Polyp Detection

Jul 2025

Publisher: [IEEE](#)

Digital Image-Based Building Detection Using Ghost Encoder-Decoder

Jul 2025

Publisher: [IEEE](#)

RESPA-Net: An Efficient Model for Polyp Image Segmentation Based on Multi Residual and Attention Mechanism

Jul 2025

Publisher: [IEEE](#)

FMDDU-Net: An Effective and Efficient Deep Learning Method for Automatic Colorectal Polyp Detection Publisher: IEEE	Jul 2025
Breast Ultrasound Image Segmentation with Multidimensional Attention and Spatial-Channel Squeeze-and-Excitation Block Publisher: IEEE	Jul 2025
Automated Building Segmentation Using Half-UNet with Multi-Scale Residual Attention and Self-Calibrated Pixel Attention Publisher: IEEE	Jul 2025
Meat Classification Using MobileNetV3Large Architecture Publisher: IEEE	Jun 2025
Digital Satellite Image-Based Automatic Building Segmentation Using Pixel Attention Half-UNet Publisher: IEEE	Jun 2025
MRAH-Net: Multiscale Residual Attention Half-UNet Efficient Deep Learning Model for Automatic Polyp Detection Publisher: IEEE	Jun 2025
ACMU-Net: An Efficient Architecture Based on ConvMixer and Attention Mechanism for Colorectal Polyp Segmentation Publisher: IEEE	Nov 2024
Improved Factorized Residual U-Net for Biomedical Polyp Segmentation Publisher: IEEE	Nov 2024
AGU-NET: Attention Ghost U-Net Untuk Segmentasi Penyakit Polip Berbasis Citra Biomedis Publisher: Buletin Gemastik	Oct 2023

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