

HAFIDH MUHAMMAD AKBAR

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Jakarta, Indonesia

SUMMARY

Data Engineer with experience in ETL development, data pipeline optimization, and data modeling. Strong proficiency in Python, SQL, and database systems, supported by a solid academic background in Informatics. Skilled in building scalable data workflows, data warehousing, and cloud-based solutions to enable accurate analytics and business insights.

WORK EXPERIENCES

Akuntplus

Data Engineer - Contract

Jakarta, Indonesia

Jun 2025 - Now

- Designed and maintained ETL pipelines to integrate data from multiple sources into centralized data warehouses, ensuring scalable and reliable data flow.
- Developed and optimized SQL queries to improve performance for data extraction, transformation, and reporting.
- Implemented data validation and quality checks, increasing data accuracy and trust for business analytics.
- Created detailed documentation and handover materials to support system maintainability.

Bangkit Academy 2023

Machine Learning Engineer (Project-Based Experience) – Internship

Remote

Aug 2023 - Jan 2024

- Built NutriMate, a full-stack nutrition application that calculates calorie needs and generates personalized meal plans using machine learning.
- Developed a recommendation system using collaborative filtering (TensorFlow, Python, JavaScript) to enhance personalization accuracy.
- Presented technical solutions to industry experts and received recognition for innovation in machine learning-based personalization.

EDUCATION

Universitas Sebelas Maret

Bachelor of Informatics

Surakarta, Indonesia

Jul 2021 – Apr 2025

GPA: 3.93/4.0

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

CERTIFICATION

TensorFlow Developer Certificate

Google for Developer

Mar 2024 – Mar 2029

TensorFlow: Data and Deployment

Coursera

Nov 2023

Structuring Machine Learning Projects

Coursera

Nov 2023

DeepLearning.AI TensorFlow Developer

Coursera

Oct 2023

Machine Learning Specialization

Coursera

Oct 2023

Mathematics for Machine Learning and Data Science

Coursera

Sep 2023

ORGANIZATION

UKM Penelitian dan Pengabdian Masyarakat (P2M)

Member

Surakarta, Indonesia

Jan 2025 - Apr 2025

- Participated in research workshops and proposal development activities focused on data and technology.
- Contributed to collaborative projects and knowledge-sharing sessions within the organization.
- Supported mentoring initiatives for junior members to enhance their learning and project readiness.

AWARDS

Best Paper 2025 4th ICERA (International Conference on Electronics Representation and Algorithm)

Jun 2025

Achieved the Best Paper Award titled “FMDDU-Net: an Effective and Efficient Deep Learning Method for Automatic Colorectal Polyp Detection”

1st Place of Scientific Paper Competition by CodeFest 001 2025

May 2025

Developed ESGU-Net, a lightweight U-Net variant achieving 92.70% mIoU for colorectal polyp detection.

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

Oct 2024

Created Pixel Attention Half-UNet for satellite building detection with 70.9% mIoU.

Finalist of Gemastik XVII 2024 (Data Mining Category)

Sep 2024

Achieved a Top 6 national ranking in the Gemastik Data Mining final.

1st Place of 11th Airlangga Ideas Competition 2023

Nov 2023

Designed an Improved Factorized Residual U-Net achieving 90.24% mIoU for medical image segmentation.

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

Sep 2023

Developed AGU-Net, an attention-based U-Net achieving 86.52% mIoU for polyp segmentation.

PUBLICATIONS & CONFERENCES

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](#)

FMDDU-Net: An Effective and Efficient Deep Learning Method for Automatic Colorectal Polyp Detection

Jul 2025

Publisher: [IEEE](#)

Automated Building Segmentation Using Half-UNet with Multi-Scale Residual Attention and Self-Calibrated Pixel Attention

Jul 2025

Publisher: [IEEE](#)

SKILLS

Hard Skills: ETL Development, Data Pipeline Design, Data Modeling, SSIS, Java, Machine Learning, Deep Learning, Data Analysis, Database Management, Data Visualization

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

Software Skills: Python, TensorFlow, PyTorch, SQL, SQL Server, MySQL, Git, Docker, Tableau

LANGUAGES

Indonesia - Native

English - Advanced (Professional working proficiency)