

MUHAMMAD ABIYA MAKRUF

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Master's Student in Informatics | Aspiring Al Engineer | Expertise in Deep Learning, Computer Vision & MLOps | Backend, DevOps, & Cloud Enthusiast

Experiences

Freelancer - Bandung, Indonesia

Jan 2025 - Sep 2025

Freelance Data & Computer Vision

Self-directed freelance work delivering data analytics and computer vision solutions for clients in sports analytics and retail sectors.

- Engineered a Computer Vision pipeline (using YOLO and custom datasets) for real-time player detection and tracking in sports analytics.
- Applied Data Analytics and Visualization to construct a Power BI sales dashboard, enabling insights into product performance and profit
 optimization.

PT Toyota Astra Motor - Jakarta, Indonesia

Aug 2024 - Sep 2024

Internship

Toyota Astra Motor is the official distributor of Toyota vehicles in Indonesia, focusing on automotive sales, service, and innovation, while implementing digital transformation across operational areas.

- Developed a series of interactive dashboards for fixed asset management and analysis, improving data-driven decision-making processes within the organization.
- Built a real-time asset movement tracker, allowing the company to monitor and control asset flows efficiently across departments in Indonesia.

Solafune Inc. - Sumida City, Tokyo

Apr 2024 - Jun 2024

Research Internship

Solafune is a geospatial technology company specializing in satellite imagery analysis for diverse sectors including agriculture, disaster response, natural resources, finance, defense, marketing, and insurance.

- Contributed to a Deep Learning project for automated solar panel detection and masking from Sentinel-2 multi-spectral imagery (13 bands).
- Utilized Convolutional Neural Networks (CNNs) and advanced Image Processing techniques to achieve high-accuracy feature extraction in remote sensing data.

Bangkit Academy - Bandung, Indonesia

Feb 2024 - Jun 2024

Bangkit 2024 Cohort – Machine Learning Path

Bangkit Academy is a career readiness program initiated by Google, GoTo, and Traveloka. The 2024 Machine Learning path equips participants with in-demand technical and soft skills through expert-led training, project-based learning, and industry collaboration.

- Graduated with Distinction from the Machine Learning Path, demonstrating proficiency in TensorFlow and advanced ML/DL concepts.
- · Selected for the Capstone Company Path, collaborating with Solafune Inc. Japan on a real-world Computer Vision project.

Informatics Laboratory – Telkom University - Bandung, Indonesia

Sep 2022 - May 2025

Asisstant Practicum

Assisted in preparing and delivering lab sessions, conducting tutorials, grading practical assignments and exams, and providing hands-on academic support.

Served as a Laboratory Assistant for 5 technical courses (Algorithms, Data Structures, Computer Networks, OOP, and Basic AI).

Faculty of Informatics – Telkom University - Bandung, Indonesia

Sep 2022 - Jan 2026

Assistant Lecturer

Assisted in delivering undergraduate courses by conducting tutorials, grading assignments and exams, preparing teaching materials, and supporting students academically.

• Lecturer Assistant for 9 diverse subjects across mathematical and computer science disciplines.

Digistar Class by Telkom Indonesia - Jakarta, Indonesia

Jun 2023 - Sep 2023

Digistar 2023 Graduate

A national technology talent development program by Telkom Indonesia designed to equip students with industry-relevant hard and soft skills.

- Completed the Backend Development path, gaining proficiency in building robust, scalable APIs which is essential for deploying ML/AI models.
- Collaborating on a capstone project that is part of several different learning paths.

Education Level

Telkom University @ - Bandung, Indonesia

Master of Informatics, 3.94/4.00

Feb 2025

- Authored two Computer Vision papers (Journal and Peer-Reviewed Conference) focusing on Plant Disease Classification and Soccer Object Detection Analytics.
- · Actively volunteered in three major events: ICoICT, ICoSEIT, and the national-level GEMASTIK Competition.

Telkom University ⊙ - Bandung, Indonesia

Sep 2021 - Jan 2025

Bachelor of Informatics, 3.96/4.00

- Secured top placements (2nd and 4th) in two national Hackathons, developing mobile applications integrated with AI for Plant Disease and Landmark Recognition.
- Authored a research paper on Deep Learning for Apple Plant Disease, published at the ICICYTA 2024 Conference.

SMA Negeri 2 Bandung @ - Bandung, Indonesia

Jul 2018 - Jun 2021

Senior High School

Students with the highest average school exam scores (Science Program).

Organisational Experience

Gemastik XVIII - Bandung, Indonesia

Oct 2025

Liaison Officer

GEMASTIK (National Student ICT Exhibition).

- Supervised a Data Mining competition focused on building Machine Learning classification models and Aksara Jawa OCR solutions.
- · Provided technical support to participants on implementation issues.

3rd International Conference (ICoSEIT) - Bandung, Indonesia

Sep 2025 - Oct 2025

Volunteer - Editorial and Event Team

an international hybrid conference, with a strong focus on Al, Deep Learning, and Computer Vision technologies.

· Contributed to the Editorial and Program Team by proofreading and guiding participants & session chairs

13th International Conference (ICOICT) - Bandung, Indonesia

Jul 2025

Volunteer - Program and Editorial Team

an international hybrid conference, with a strong focus on AI, Deep Learning, and Computer Vision technologies.

Contributed to the Editorial and Program Team by proofreading and guiding participants & session chairs

Skills, Achievements & Certificate

- Achievements ⊚ (2024): Distinction Graduate Bangkit Academy Machine Learning Path
- Achievements 3 (2023): 2nd Place Winner Hackathon competition organized by KMTETI, Universitas Gadjah Mada (UGM)
- Achievements @ (2023): Finalist (4th Place) Hackathon competition organized by Universitas Ciputra Surabaya

- Projects @ (2023): Planties: Al-powered mobile app for plant management and disease detection.
- Dicoding: Al Engineer Certification

 (2025)

- Dicoding: Gen Al Engineer Certification **②** (2025)
- Coursera: TensorFlow Advanced Techniques Specialization Certification ⊚ (2024)
- Coursera: DeepLearning.Al TensorFlow Developer Professional Certification **②** (2024)
- Deep Learning & Computer Vision: TensorFlow, PyTorch, YOLO, Roboflow, MLflow, Dagshub
- MLOps & Deployment: Docker, Kubernetes, GitHub Actions, Jenkins, RunPod, Prometheus, Grafana
- Data & BI Tools: Power BI
- · Soft Skills: Time management, leadership, and organizing activities