



MUHAMMAD ABIYA MAKRUF

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Master's Student in Informatics | Backend & Cloud Enthusiast | Computer Vision & Data Analytics Focus

Experiences

Freelance - Bandung, Indonesia <i>Freelance Data & Computer Vision</i> Self-directed freelance work delivering data analytics and computer vision solutions for clients in sports analytics and retail sectors. <ul style="list-style-type: none">Tarkam Football Analytics Project: Developed a computer vision pipeline for player detection and tracking using public and proprietary datasets. Generated detailed per-player statistics such as heatmaps, movement trajectories, and spatial activity visualizations.Fashion Retail Sales Dashboard: Designed and implemented a Power BI dashboard for a fashion store to analyze yearly sales performance. Enabled insights on best-selling products, top-spending customers, and profit-maximizing items.	Jan 2025 - Sep 2025
PT Toyota Astra Motor - Jakarta, Indonesia <i>Internship</i> 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. <ul style="list-style-type: none">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.Designed a dashboard to compare and reconcile data between the Fixed Asset Management System (FAMS) and SAP.	Aug 2024 - Sep 2024
Solafune Inc. - Sumida City, Tokyo <i>Research Internship</i> 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. <ul style="list-style-type: none">Contributed to a machine learning project focused on detecting and masking solar panels from Sentinel-2 satellite imagery, utilizing all 13 spectral bands.Applied deep learning and image processing techniques to improve the accuracy and efficiency of solar panel detection in multi-band remote sensing data.	Apr 2024 - Jun 2024
Bangkit Academy - Bandung, Indonesia <i>Bangkit 2024 H1 Cohort – Machine Learning Path</i> 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. <ul style="list-style-type: none">Graduated with Distinction in the Machine Learning path.Selected for the Capstone Company Path, collaborating with Solafune Inc. (Japan) on a real-world project as part of the Bangkit program.	Feb 2024 - Jun 2024
Informatics Laboratory – Telkom University - Bandung, Indonesia <i>Assistant Practicum</i> Assisted in preparing and delivering lab sessions, conducting tutorials, grading practical assignments and exams, and providing hands-on academic support. <ul style="list-style-type: none">Programming Algorithms Assistant, Data Structures Assistant, Computer Networks Assistant, Object-Oriented Programming Assistant, Fundamentals of Artificial Intelligence Assistant	Sep 2022 - May 2025
Faculty of Informatics – Telkom University - Bandung, Indonesia <i>Assistant Lecturer</i> Assisted in delivering undergraduate courses by conducting tutorials, grading assignments and exams, preparing teaching materials, and supporting students academically. <ul style="list-style-type: none">Calculus Assistant and Advanced Calculus Assistant (2022/2023 – 2024/2025)Data Structures Assistant, Software Engineering Implementation Assistant, Object-Oriented Programming Assistant, Platform-Based Application Development Assistant	Sep 2022 - Present
Digistar - Jakarta, Indonesia <i>Digistar 2023 Graduate</i> A national technology talent development program by Telkom Indonesia designed to equip students with industry-relevant hard and soft	Jun 2023 - Sep 2023

skills.

- Completed the Backend Development learning path. Participated in hands-on projects and collaborative learning sessions.

Event Horizon - Bandung, Indonesia Jul 2020 - Jul 2022

Full Stack Developer

A vendor engaged in website development services for event needs, organizations, etc.

- Developed and maintained full-stack websites for F2WL events, i.e., the official website, tournament platform, and online store.

Google Developer Student Clubs - Bandung, Indonesia Sep 2021 - Jan 2022

GDSC ITB Graduate

Student-led community supported by Google Developers, aimed at fostering collaborative learning.

- Actively participated in workshops, coding sessions, and tech talks hosted by GDSC ITB.

Education Level

Telkom University - Kabupaten Bandung, Indonesia Feb 2025 -


Master of Informatics, 3.94/4.00

- Conference Paper Publication at ICODSA 2025
- Journal Paper Publication at Lontar Komputer 2025

Telkom University  - Kabupaten Bandung, Indonesia Sep 2021 - Jan 2025

Bachelor of Informatics, 3.96/4.00

- 2nd Place, FindIT Hackathon – Universitas Gadjah Mada, 2023
- 4th Place, Hackfest Universitas Ciputra
- Conference Paper Publication at ICICYTA 2024

SMA Negeri 2 Bandung  - Bandung, Indonesia Jul 2018 - Jun 2021

Senior High School

- Achieved the highest school exam score in the Class of 2021.

Organisational Experience

3rd International Conference (ICoSEIT) Sep 2025 - Oct 2025

Volunteer - Editorial and Event Team

An international hybrid conference held in Bandung, Indonesia, themed "Navigating the Questionable Future for Software Engineering & Information Technology".

- Contributed to the Editorial Team by proofreading and formatting conference materials, ensuring consistency and quality of published content.
- Contributed as co-host, guiding participants and session chairs in conducting onsite presentations






13th International Conference (ICOICT) - Bandung, Indonesia Jul 2025

Volunteer – Program and Editorial Team

An international hybrid conference held in Bandung, Indonesia, themed “Driving a Sustainable Future with AI, IoT, and Data Science Technologies.”

- Assisted the Program Team in managing conference sessions.
- Contributed to the Editorial Team by proofreading and formatting conference materials, ensuring consistency and quality of published content.

Skills, Achievements & Certificate

- **Achievements ** (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
- **Achievements ** (2021): Achieved the highest school exam scores at SMA Negeri 2 Bandung, Class of 2021
- **Projects ** (2024): Sensevis - Machine learning models that can detect and mask solar panels from sentinel-2 13-band tiff images
- **Projects ** (2023): Planties - Mobile application that help you to manage plants.
- **Soft Skills:** Time management, leadership, and organizing activities
- **Programming Languages:** Python, JavaScript, PHP, C++, Java
- **Frameworks & Libraries:** TensorFlow, PyTorch, YOLO, Roboflow, MLflow, Dagshub
- **MLOps & DevOps:** Docker, Kubernetes, GitHub Actions, Jenkins, RunPod, Prometheus, Grafana
- **Data & BI Tools:** Power BI
- **Cloud Services:** Google Cloud Platform, Amazon Web Services, Microsoft Azure