

Muhammad Varel Antoni

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[Web Portfolio](#)

PROFILE

I am Muhammad Varel Antoni, an active student at University of Brawijaya, majoring in Information Technology. I consider myself a communicative person who works well in a team. I have a strong interest in Data Science and Artificial Intelligence. I am determined to pursue a career as a Data Scientist and ML/AI Engineer with a generalist skillset. My goal is to be well-prepared for the demands of the times by being creative and adept at solving problems.

EDUCATION

University of Brawijaya | Information Technology

Aug 2022 - Present

- **GPA:** 3.80/4.00
- **Achievements:**
 - 1st Winner of ICT Business Idea Competition ITCC 2024
 - 1st Winner of Business Plan Pokja Scientific Competition 2024
 - Finalist of AI Innovation Challenge at COMPFEST 17 2025
 - Manager of Organizational Development Human Resource at Society of Renewable Energy UB

EXPERIENCE

Computer Vision Engineer - Intern | CADIT Consultants Asia Pte Ltd

Oct 2025 - Present

- Supported the development of a Safety AI System for maritime logistics by ensuring high-quality data inputs and reliable classification models.
- Managed the dataset creation process, performing rigorous annotation on safety and logistical objects (PPE, Cargo) to train robust detection models.
- **Tools:** Python, PyTorch, Visual Studio Code, CVAT, GitLab.

Data Scientist - Intern | PT Telkom Indonesia

May 2025 - Aug 2025

- Built a RAG-based intelligent chatbot using internal documentation to improve knowledge retrieval and internal decision-making processes.
- Developed a YOLOv9-based Computer Vision model to detect baby positions (e.g., standing, sleeping, near bed edge) as part of a safety monitoring initiative.
- **Tools:** Python, Google Colab, Visual Studio Code, Roboflow, GitHub, Streamlit.

Machine Learning Engineer - Bootcamp | DBS Coding Camp 2025

Feb 2025 - Jun 2025

- Completed intensive training in Machine Learning and Deep Learning, covering both theoretical and practical foundations.
- Worked on hands-on projects including recommendation systems, time series forecasting, and NLP classification using transformer models.
- Built a computer vision-based personal color detector for fashion advice as a capstone project.
- **Tools:** Python, Google Colab, Visual Studio Code, GitHub, Streamlit.

Data Scientist - Project-Based Internship | Home Credit Indonesia

Dec 2024 - Dec 2024

- Project-Based Virtual Intern: Home Credit x Rakamin Academy.
- Demonstrating excellent as a student by averaging 81 on score.
- Learning and completed various task related to Data Scientist, such as Excel, Big Data, Data Warehousing and Machine Learning.
- **Tools:** Excel, MySQL, Python, Google Colab.

Machine Learning & AI Bootcamp - Bootcamp | DQLab

Sep 2024 - Dec 2024

- One of the best participant by creating best portfolio.
- Learn about Machine Learning, Deep Learning and deploying a model to a dashboard.
- **Tools:** Python, Google Colab, Visual Studio Code, Github, Streamlit.

ORGANIZATIONAL AND LEADERSHIP EXPERIENCE

Manager of Organizational Development at Human Resource I Sep 2024 - Okt 2025
Society of Renewable Energy University of Brawijaya

- Contributed to building and strengthening an organizational culture that fosters innovation, collaboration, and optimal performance.
- Evaluated the effectiveness of organizational development programs, including training sessions and workshops on soft skills and knowledge in Renewable Energy.

Leader of the team at 2 Business Plan Competitions Sep 2024 - Nov 2024

- Led 3-member team, to make a proposal, BMC, and presentation.
- Online and offline pitching to the jury.
- Won 1st place in both competitions.

Project Officer of Study With SRE x Lawnergy Talks 2024 Oct 2024 - Nov 2024

- Led and managed 4 division, ensuring successful seminar.
- Conducted many meetings to discuss about plan for the seminar.
- Make sure and coordinating everything is ready and goes well.

PROJECTS

- Facility Maintenance Request Website, Developed an AI system using a custom-trained YOLOv9 model and Gemini API integration to automatically detect and generate descriptive reports for facility damages. ([Github](#) & [Website](#))
- My personal Streamlit dashboard ([Github](#) & [dashboard](#))
- Personal Color Detector, dataset labelling and modelling using CNN ([Github](#) & [Website](#))
- Heart Disease Prediction, using classification through hyperparameter tuning ([Github](#) & [dashboard](#))
- Movies Dataset Visualizes App, doing data preprocessing and feature engineer ([Github](#) & [dashboard](#))
- Home Credit Scorecard Model, Project-Based Virtual Intern: Home Credit x Rakamin Academy ([Github](#))
- Brain Tumor Prediction, using Convolutional Neural Network (CNN) model ([Github](#))
- Plane Price Prediction, using various regression model ([Github](#))
- Hand Landmark Detection, using opencv ([Github](#))
- Weather Dataset, Using random forest classification ([Github](#))

CERTIFICATIONS

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|---|-----------------|
| • 13 Certificates from DBS Coding Camp 2025 mostly focused on Machine Learning and Deep Learning, Dicoding | Issued Feb 2025 |
| • Certificate of Achievement - Home Credit Indonesia Data Science Project Based Internship Program, Rakamin Academy | Issued Dec 2024 |
| • Bootcamp Machine Learning & AI for Beginner Batch 14, DQLab | Issued Dec 2024 |
| • Accenture North America - Data Analytics and Visualization Job Simulation, Forage | Issued Jun 2024 |
| • Belajar Dasar Data Science, Dicoding | Issued Sep 2024 |
| • 10+ SQL and MySQL Certifications, DQLab | Issued Jun 2024 |
| • ASEAN Data Science Explorers 2024 Enablement Session – SAP Analytics Cloud and SAP Build Apps Online Training Session | Issued Apr 2024 |
| • Introduction to Microsoft Excel, Coursera | Issued Jan 2025 |

SKILLS

Language: English, Bahasa Indonesia.
Skills: Python, SQL, MySQL, Google Colab, Microsoft Excel, Streamlit, Machine Learning, Deep Learning, Computer Vision, LLM.
Interest: Internship, Data Science, Machine Learning Engineer, AI Engineer, Business Intelligence.