

MAULANA RIDHWAN

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AI/ML Engineer and Fullstack Developer with expertise in Python, FastAPI, LangChain, and TensorFlow/PyTorch. Experienced in AI backend development, computer vision, and time-series, including an award-winning weather forecasting for tourism recommendation web app. Recognized for strong teamwork and leadership through active involvement in student organizations, with a passion for building scalable and impactful technology solutions.

Experience

Fullstack Web Developer at Korea – ASEAN Digital Academy by Elice inc. - Cikarang, Indonesia	Aug – Nov 13th
• Expanded knowledge in fullstack development React, Node.js, Cloud, DevOps, UI/UX. Led the AI/NLP component of the capstone project, developing an LLM-based agentic chatbot capable of autonomous reasoning and adaptive interactions. Capstone	
Machine Learning Engineer at Coding Camp 2025 by DBS Foundation - Scholarship	Jan - Jun 2025
• Conducted end-to-end machine learning and deep learning workflows - from data preprocessing to model deployment achieving over 90% accuracy across various projects. Projects	
• Capstone Project (2025) – Developed a weather forecasting feature with an MAE of 0.08, integrated into <i>Sandtara Trip</i> — a web app providing tourism and hotel recommendations in Denpasar with hourly and daily forecasts. Capstone Project	
Nuclear Energy Facilities Intern at Badan Riset dan Inovasi Nasional (BRIN) - Serpong, Indonesia	Jun - Aug 2024
• Performed routine inspection and maintenance of machinery at the Radioactive Waste Processing Facility, ensuring operational safety and equipment reliability.	
• Project (2024) – Achieved 96% accuracy and 93% F1-score in predictive modeling of capacitor module activation in critical power systems at the Radioactive Waste Management Installation, using Random Forest and SMOTE. Paper	
Data Science at Hacktiv8 - Awardee of MSIB Kampus Merdeka	Aug - Dec 2023
• Conducted Exploratory Data Analysis (EDA) using Python, developed machine learning models, and created basic to advanced visualizations and web app prototypes using Streamlit and Flask for compelling data representation. Projects	
• Project (2023) – Achieved 95% accuracy in predicting the risk of death due to heart disease using Gradient Boosting and Random Forest classifiers.	
News and Business Writer Intern at IDN TIMES - Jakarta, Indonesia	Jan - Apr 2024
• Researched and authored 100+ news and business articles, leveraging data and market analysis to transform complex economic and corporate issues into accessible insights for diverse readership. Read	

Education Level

Universitas Pembangunan Nasional Veteran Jakarta – Jakarta	Aug 2021 - Jul 2025
<i>Bachelor Degree in Electrical and Electronics Engineering, 3.82/4.00</i>	
• Thesis: Developed a protest monitoring system using YOLO on Raspberry Pi for real-time object detection	
• Projects: Anti-Looting System Using Load Cell and RFID Integrated with Telegram (Capstone Project, 2024), SIM800I-modul based satellite prototype (course of Advanced Electronics System, 2023), Automatic Plant Watering Control with IMU (course of Microprocessor), Flood Detector using Ultrasonic Sensor (PKM-KC, 2023)	
• Experience: Physics Laboratory Assistant of Faculty of Engineering in UPN Veteran Jakarta (February – July 2023)	

Organizational Experience

Majelis Permusyawaratan Mahasiswa (MPM) UPN Veteran Jakarta	Jan - Dec 2023
<i>Expert Staff of Commission 3</i>	
• Supervised programs of the Department of Women Empowerment and Student BEM UPNVJ	
• Vice project officer of Evaluasi Tengah Tahun 2023, Head unit of Legislative School UPNVJ 2023	
Himpunan Mahasiswa Teknik Elektro UPN Veteran Jakarta	Jan - Dec 2024
<i>Head of Advocate</i>	
• Served as a key liaison between students and faculty leadership, effectively advocating for student welfare and facilitating actionable policy improvements.	
Kelompok Studi Mahasiswa (KSM) Internet of Things UPN Veteran Jakarta	Feb 2022 - Feb 2024
<i>Mechanical Division, Head of Public Relation 2024</i>	
• Led and collaborated IoT projects innovation, coordinated partnerships and collaborations with external organizations	

Additional Information

- **Achievements:** Top 20 Teams Capstone Project Coding Camp (2025), Finalist of KTI HMTE (2024), Best staff of MPM UPNVJ (Q1 of 2023)
- **Soft Skills:** Strong communication, leadership, and teamwork abilities; tech-savvy and adaptive
- **Programming Language:** Python, JavaScript, Typescript, SQL, C++, HTML, CSS
- **Library and Framework:** LangChain, LangGraph, Transformers, TensorFlow, PyTorch, YOLO, OpenCV, FastAPI, React, Express.js
- **Tools:** MongoDB, Flask, GCP, MLflow, AWS, Koyeb, Streamlit, Postman, Git
- **Language:** English (intermediate), Mandarin (beginner)