

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Conducted end-to-end machine learning and deep learning workflows - from data preprocessing to model deployment achieving over 90% accuracy across various projects. ProjectsCapstone 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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. ProjectsProject (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
<ul style="list-style-type: none">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>	
<ul style="list-style-type: none">Thesis: Developed a protest monitoring system using YOLO on Raspberry Pi for real-time object detectionProjects: 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>	
<ul style="list-style-type: none">Supervised programs of the Department of Women Empowerment and Student BEM UPNVJVice 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>	
<ul style="list-style-type: none">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>	
<ul style="list-style-type: none">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)