MUHAMAD JAFAR RAHADIAN

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PROFILE

Informatics Engineering graduate with expertise in Machine Learning and Full-Stack Web Development. Skilled in AI-driven solutions, data analytics, and end-to-end web applications. Proficient in Python (TensorFlow, Scikit-learn, Pandas, NumPy, PyTorch), SQL databases (MySQL, PostgreSQL, SQL Server), and Docker. Experienced in building Full-Stack apps (Next.js, Laravel 12, CI4, PHP and FastAPI). Contributed to AI and automation projects at PT. Astra Visteon Indonesia, enhancing efficiency and performance. Adapted innovative technologies to deliver impactful solutions that drive measurable organizational improvements.

EDUCATION

Universitas Muhammadiyah Prof. Dr. Hamka – East Jakarta, Indonesia   September 2020 – December 2024
Bachelor Degree in Informatics, GPA: 3.82/4.00

- Undergraduate thesis title: "Implementation of the Long Short-Term Memory Algorithm to Predict the Price of Litecoin Cryptocurrency" (Machine Learning Topic), **achieving 91% improvement in predictive accuracy.** March 2024 to November 2024.

WORK EXPERIENCE

PT. Astra Visteon Indonesia – IT & Maintenance Department   5 June 2025 - Now
Internship IT as a Full-stack Web Developer, AI Engineer, & Machine Learning Engineer.

- Built an automated RFQ email system to streamline vendor communication and status tracking, **boosting operational efficiency by up to 50% (4th Place QCC Winner at PT. AVI)** and web-based workflow system for internal claims with role-specific inputs and an analytical dashboard, improving process **automation** and **efficiency by 40% (1st Place QCC Winner at PT. AVI)**.
- Created an AI-powered chatbot system for document search management, **accelerating resume creation** and **information retrieval by 50%** and developed a web-based monitoring solution for Atlas Copco compressors using machine learning–driven forecasting and anomaly detection, **reducing production failure risk by 5–15%**.
- Designed and implemented an **automated database backup system** to ensure data integrity, successfully **mitigating the risk of data loss due to human error by up to 80%**.
- Developed a web-based **data management dashboard for monitoring PC resource** usage (CPU, GPU, RAM, Disk) using Windows Exporter, Prometheus, and Grafana, **reducing application crash risk caused by sudden resource spikes** by approximately **25%**.

PROJECT EXPERIENCE

Stock Price Prediction Using Neural Network Algorithms – Personal Project   May 2025
Link Project

Data Science – Application of 3 Neural Network Algorithms for Stock Price Prediction

- Applied **LSTM**, **GRU**, and **1D CNN** on **8,539 IDX stock data samples**, with **LSTM** yielding **best performance** at **1.04% MAPE** and **0.96 R^2**, followed by the **GRU model** and **1D CNN model (MAPE 1.09%, R^2 0.95)**. Demonstrating its ability to minimize prediction deviation, making it suitable for volatile markets like the IDX Composite.

CERTIFICATION

- **TOEFL ITP**   : Link
- **Dicoding Academy**   : AI Basic | Python | Google Sheet | Machine Learning Basic | Machine Learning Intermediate | Machine Learning Expert
- **Microsoft Office Excel** : Link

SKILLS & LANGUAGE

- **Language**   : English (Conversational) | Indonesian (Native) |
- **Hard Skills**   : Python | Javascript | Typescript | PHP | SQL | Fast API | Flask | Next.js | Laravel | Tensorflow | Google Colab | Jupyter Notebook | Microsoft Excel | Google Sheets | Microsoft Word | Microsoft Power BI |
- **Soft Skills**   : Adaptability | Problem-Solving Skills | Communication Skills | Team Collaboration | Time Management Skills | Loyalty |