MUHAMAD JAFAR RAHADIAN

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PROFILE

Recent 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 APP (Next.js, Laravel 12, CI4, PHP and FastAPI). Contributed to AI and automation projects at PT. Astra Visteon Indonesia, enhancing efficiency and performance. Committed to leveraging technology to create impactful solutions.

EDUCATION

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

- Participated in the **Entrepreneurship PKM Program** by the Ministry of Education, passed university selection, and obtained an **Intellectual Property Rights certificate**. - November 2022 to June 2023
- Developed a thesis project titled "Implementation of the Long Short-Term Memory Algorithm to Predict the Price of Litecoin Cryptocurrency" (Data Analysis Topic). - 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%**.
- Developed a web-based workflow system for internal claims with role-specific inputs and an analytical dashboard, improving process **automation** and **efficiency by 40%**.
- Created an AI-powered chatbot system for document search management, **accelerating resume creation** and **information retrieval by 50%**.
- Engineered 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%**.

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 R²**, followed by the **GRU model** and **1D CNN model (MAPE 1.09%, R² 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 |