MUHAMAD JAFAR RAHADIAN

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PROFILE

Recent Informatics Engineering graduate with strong expertise in Machine Learning and Full-Stack Web Development. Skilled in developing AI-driven solutions, data analysis workflows, and end-to-end web applications. Proficient in Python (TensorFlow, Scikit-learn, Pandas, NumPy), SQL databases (MySQL, PostgreSQL, SQL Server, SQLite), and containerization with Docker. Experienced in building responsive frontends with Next.Js, Laravel 12, and CI4, and developing backend systems with PHP and Fast API Python. At PT. Astra Visteon Indonesia, contributed to projects involving AI, process automation, and system development, delivering measurable improvements in efficiency and performance. A fast learner with a passion for innovation, 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%**.

BPTI (Badan Pengembangan Teknologi dan Informasi) UHAMKA – Service and Information Division 2023 & 2024
Video *Editing & Live Streaming*

- Created onboarding **video tutorials for 25+ new UHAMKA lecturers** using **OBS**, **Adobe Audition**, and **Premiere Pro**.
- Operated **camera** and **live-streamed** PWM DKI Jakarta Conference **for 250+ attendees** using **vMix**, **OBS**, and **Elgato**. - March 2023
- Handled **camera** and **technical setup** for UHAMKA Boarding School graduation event **with 50+ attendees**. - June 2024

PROJECT EXPERIENCE

Analysis of App User Sentiment Based on Google Play Store using ML Model – Dicoding 2025
Project Link
Machine Learning, Data Science – Sentiment Analysis for Data analyst

- Built a sentiment analysis model **using TF-IDF and Word2Vec with 10,000+ data, achieving up to 90% accuracy and identifying 39.4% of reviews as neutral.**

Stock Price Prediction of IDX Composite Using Neural Network Algorithms – Dicoding 2025
Project Link
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.

ORGANIZATIONAL EXPERIENCE

IMM (Muhammadiyah Student Association) – Media and Communication Division   December 2021 - August 2023
Muhammadiyah Student Association for Faculty of Industrial Technology and Informatics UHAMKA

- Created webinar posters for SMEs(UMKM) using Canva, increasing registration rates by 75% and reaching more than 500 participants Link
- Created event certificates using Canva, improving professionalism and receiving 80% positive feedback from participants. Link
- Designed Instagram feed layouts for the @pkimmftiiuhamka account, increasing engagement by 25% and gaining more than 100 new followers. Link

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 | Tensorflow | Google Colab | Jupyter Notebook | SQL | Javascript | PHP | Microsoft Excel | Google Sheets | Microsoft Word | Microsoft Power BI | OBS Studio | Adobe Premiere Pro | Adobe Audition |
- **Soft Skills:** Adaptability | Problem-Solving Skills | Communication Skills | Team Collaboration | Time Management Skills | Loyalty |