MUHAMAD JAFAR RAHADIAN

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PROFILE

Informatics Engineering graduate (GPA 3.82/4.00) with proven expertise in Full-Stack Web Development and Machine Learning. Experienced in building scalable web applications, automating workflows, and deploying AI-driven solutions that drive operational efficiency. Successfully delivered enterprise-grade projects at PT. Astra Visteon Indonesia, ranging from real-time server monitoring to automated financial systems. Proficient in Python, PHP, JavaScript, and DevOps practices including Docker and CI/CD pipelines.

WORK EXPERIENCE

PT. Astra Visteon Indonesia(Astra Otoparts Group) – Maintenance & IT Department   5 June 2025 - Present
Full-stack Web Developer, AI Engineer, & Machine Learning Engineer.

- **Process Automation**: Built an automated RFQ email system and a web-based workflow for internal claims, improving process automation by 40-50% and winning 1st Place (Claims) and 4th Place (RFQ) in the company Quality Control Circle (QCC).
- **AI Implementation:** Engineered an AI-powered chatbot for document search management, accelerating information retrieval and resume creation by **50%.**
- **Predictive Maintenance:** Developed a web-based monitoring solution for Atlas Copco compressors using ML forecasting and anomaly detection, reducing production failure risks by **5-15%.**
- **Infrastructure Monitoring:** Implemented a real-time data management dashboard using **Prometheus, Grafana, and Windows Exporter** to monitor PC resources (CPU, RAM, Disk), reducing application crash risks by **25%**.
- **System Administration:** Managed 5 Windows Server VMs, handling configuration and migration. Deployed an automated database backup system (via SSMS), mitigating data loss risks by **80%**.
- **Audit Compliance**: Built a comprehensive "Internal Control Audit Review" web application for tracking audit processes, monitoring SOP compliance, and generating detailed reports.

PROJECT

Development of AI-Based Stock Analysis & Prediction System – Web Aplication   January 2025 – Present
Deep Learning & Software Engineering Topic

- Implemented **Multi-Model Deep Learning** (LSTM, GRU, CNN, etc) for stock price forecasting, **achieving up to 91% improvement in predictive accuracy** and utilizing Explainable AI (XAI) to provide transparent feature importance analysis for every prediction.
- Designed a high-performance Microservices Architecture (Django & FastAPI), decoupling data processing from the user interface, which **reduced system response time by approximately 40%** compared to monolithic implementations.
- Engineered a **robust Backtesting Engine** to **simulate trading strategies on historical data**, validating model performance with **up to 58% Win Rate** and consistent positive returns during testing scenarios.

EDUCATION

Universitas Muhammadiyah Prof. Dr. Hamka – East Jakarta, Indonesia   September 2020 – December 2024
Bachelor Degree in Informatics Engineering, 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.

SKILLS & LANGUAGE

- **Language:** English (Conversational) | Indonesian (Native)
- **Machine Learning & AI:** Python | Tensorflow | PyTorch | Scikit-learn | Pandas | NumPy | Google Colab
- **Data & OPS:** SQL (MySQL, PostgreSQL, SQL Server) | Docker | Prometheus | Grafana | Git | Redis | Celery | NSSM
- **Web Development:** PHP | JavaScript | Typescript | Laravel | Django | Flask | Fast API | Next.js | React.js
- **Office:** Microsoft Word | Microsoft Excel | Microsoft Power Point | Microsoft Power BI | Google Sheets

CERTIFICATION

- **TOEFL ITP:** Link
- **Dicoding:** Python | Google Sheet | Machine Learning Basic | Machine Learning Intermediate | Machine Learning Expert
- **Tensorflow & Microsoft Office Excel:** Tensorflow Developer Certificate | Microsoft Office Specialist: Excel