

Shendi Teuku Maulana Efendi

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PROFILE SUMMARY

Informatics engineer freshgraduate and AI Engineer specializing in the design and implementation of end-to-end AI pipelines in production environments. Experienced in integrating AI models with robust backend infrastructure using FastAPI, Docker, MinIO, and PostgreSQL on Linux servers. Possesses strong expertise in developing agentic web crawlers, fine-tuning Large Language Models (CPT/SFT), and implementing Vision Transformers (ViT). Recognized as a Top 10% graduate of the Laskar AI program, dedicated to applying clean code principles to build efficient and maintainable automation systems. Furthermore, actively serves as a Code Reviewer at Dicoding Indonesia to ensure student projects align with strict industry standards. Certified Associate Data Scientist (BNSP) and Associate Big Data (Alibaba Cloud), highly accustomed to Agile collaboration in solving real-world challenges across the public and technology sectors

EDUCATION

UNIVERSITAS PGRI MADIUN

September 2021 - Agustus 2025

Teknik Informatika - IPK 3.87/4.00

EXPERIENCE

AI Engineer

November 2025 - Mei 2026

Ministry of Communication and Digital (Komdigi)

AI Engineer Intern

- Architected and deployed an end-to-end microservices pipeline on a Linux VPS (Docker Compose, FastAPI, PostgreSQL, MinIO, Vite). Developed an agentic smart crawler using Browser Use and Playwright, powered by a local LLM (Qwen 3.5 4B) to bypass extreme blockers (18+ popups, ads, CAPTCHAs). Utilized xvfb-run to prevent zombie processes during headless execution and optimized local LLM token limits (max_length), successfully scaling extraction to ~6,000 URLs per day.
- Developed a tactical Selenium-based crawler specifically to extract online gambling networks hidden behind AMP (Accelerated Mobile Pages) domains. Executed mobile user-agent manipulation and custom DNS routing, automating the extraction of dozens of targeted deep pages from Google and Bing search engines.
- Executed Continued Pre-Training (CPT) on an Indonesian base LLM (Bakat-8B-Base / Qwen3-8B) utilizing LoRA and 4-bit quantization. Processed a 92M-token corpus of regulatory and public data to enhance the model's AI reasoning capabilities.
- Engineered a multimodal vision pipeline by fine-tuning Vision Transformers (ViT) on a dataset of 10,700 web screenshots, achieving production-grade 99% accuracy and a 0.99 F1-Score for content classification. Implemented RT-DETR for real-time object detection of specific UI elements (CTA buttons, promo banners, game thumbnails).

External Code Reviewer

Agustus 2025 - Sekarang

Dicoding Indonesia

Code Reviewer (Freelance)

- Conducted technical audits, debugging, and code reviews for 400 to 450 projects per month across 6 AI/ML learning paths (Gen AI, MLOps, Data Science, Deep Learning).
- Evaluated complex architectural implementations comprehensively, including Custom Training Loops (tf.GradientTape), Seq2Seq models, and Multi-Head Attention layers, ensuring computational efficiency and zero data leakage.
- Audited student deployment pipelines, validating CI/CD integration via GitHub Actions, model tracking with MLflow and DagsHub, and server monitoring setups utilizing Prometheus and Grafana.
- Delivered industry-standard insights and structured, actionable feedback on problem-solving, algorithmic optimization, and parameter handling to mentor participants from Basic to Advanced levels.

Laskar AI

Februari 2025 - Juni 2025

AI Merdeka X NVIDIA

AI Engineer Cohort

- Graduated with Distinction (Ranked 37th out of 616 national participants), completing 900+ hours of intensive project-based training in AI.
- Developed a gold price prediction system utilizing a Gated Recurrent Unit (GRU) with a 60-day sliding window architecture, achieving high-precision performance with an R^2 score of 0.9971, MAPE of 0.62%, and RMSE of 19.55 on testing data.
- Optimized GRU architecture (Units, Dropout, Learning Rate) employing hyperopt and executed Sentiment Analysis using VADER on financial news headlines for feature selection and market correlation analysis.
- Deployed an interactive web-based inference pipeline using Streamlit to execute autoregressive multi-step future price forecasting.

Kampus Merdeka - MSIB Batch 7

Agustus 2024 - Desember 2024

RSUD Dr. Soetomo Surabaya

Data Scientist

- Designed and developed predictive classification models (XGBoost, Random Forest, Logistic Regression) to detect stunting risk in low birth weight and premature infants, utilizing a clinical dataset of >1,500 patient medical records.
- Resolved extreme class imbalance inherent in medical data by implementing SMOTE and class-weighting techniques. This approach significantly increased Sensitivity (Recall) to ~0.89, minimizing false negatives in diagnosing high-risk stunting infants.
- Executed Exploratory Data Analysis (EDA) and statistical-based feature selection to isolate the clinical variables most contributing to stunting risk.
- Validated model generalizability using 5-fold cross-validation, achieving a solid ROC-AUC score of 0.86 while ensuring the model remained free from bias and overfitting.

SERTIFIKASI

Badan Nasional Sertifikasi Profesi (BNSP)

Desember 2025

Associate Data Science

Badan Nasional Sertifikasi Profesi (BNSP)

Februari 2024

Associate Data Science

Alibaba Cloud Certification

Agustus 2024

Associate Big Data

SOFT SKILLS

- Growth Mindset
- Komunikasi
- Critical Thinking
- Kolaboratif
- Problem Solving
- Continuous Learning
- Interpersonal skills
- Analytical Thinking
- Time Management
- Self-motivated

TECHNICAL SKILLS

- Artificial Intelligence & Machine Learning
 - Large Language Models (LLM)
 - Computer Vision (ViT, RT-DETR, OCR)
 - Model Fine-Tuning (CPT, SFT, LoRA)
 - MLOps & AI Deployment
 - Model Serving & Inference Pipeline
 - Web Crawling & Data Engineering
 - FastAPI
 - Docker
 - PostgreSQL & MinIO
 - Hugging Face
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