

# Shendi Teuku Maulana Efendi

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Madiun, Jawa Timur, Indonesia

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## PROFILE SUMMARY

Fresh Graduate in Computer Science with a strong focus on Artificial Intelligence, Machine Learning, and Data Science. Currently serving as an External Code Reviewer at Dicoding Indonesia, responsible for evaluating and providing feedback on participants' projects in the Machine Learning and Data Science tracks to enhance code quality and ensure adherence to clean coding practices aligned with industry standards. Experienced in intensive programs such as Laskar AI x NVIDIA, Kampus Merdeka (MSIB Batch 5 & 7), and DBS Foundation Coding Camp 2024, and certified as an Alibaba Cloud Associate Big Data professional. Hands-on in end-to-end AI model development, cloud-based data analysis, and intelligent system deployment. Recognized as an analytical, adaptive, and results-driven individual with a strong passion for transforming data into strategic insights and innovative technological solutions.

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## EDUCATION

### UNIVERSITAS PGRI MADIUN

September 2021 - August 2025

Informatics Engineering - IPK 3.87/4.00

### SMAN 2 MADIUN

2017 - 2020

Natural Science

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## EXPERIENCE

### External Code Reviewer

August 2025 - Now

Dicoding Indonesia

*Code Reviewer*

- Conducted code reviews for participant projects in the Machine Learning and Data Science learning paths, ensuring code quality, efficiency, and readability aligned with industry standards.
- Provided constructive feedback on problem-solving approaches, code structure, and the application of clean code principles to help participants improve their project quality.
- Ensured assessment consistency through internal guidelines and best practices, contributing to an enhanced learning experience for participants.
- Collaborated asynchronously and remotely via Dicoding's internal platform to maintain efficiency and accuracy throughout the review process.

### Laskar AI

February 2025 - June 2025

AI Merdeka X NVIDIA

*AI Engineer*

- Implemented an end-to-end MLOps pipeline for student performance prediction, covering data preprocessing, model experimentation, deployment, and monitoring in a production environment.
- Automated machine learning workflows (CI/CD) using GitHub Actions for data validation, model training, and evaluation, improving efficiency and reproducibility.
- Integrated experiment tracking with MLflow to log parameters, metrics, and artifacts throughout the model lifecycle.
- Performed model containerization using Docker, deployed it as a scalable REST API, and managed lifecycle transitions (staging-production) through MLflow Model Registry.
- Built a real-time monitoring system with Prometheus and Grafana, featuring performance dashboards (latency, error rate) and alerting rules for anomaly detection.
- Developed GoldSight, a GRU-based time series forecasting system for gold price prediction, achieving  $R^2 = 0.9971$  and MAPE = 0.62%, enhanced with news sentiment analysis integration.
- Deployed the model and scaler to a Streamlit dashboard as an interactive web-based prediction service, integrated with cloud storage for managing data and prediction results.

**Kampus Merdeka - MSIB 7**

**August 2024 - December 2024**

Kominfo X RSUD DR. Soetomo Surabaya

*Data Scientist*

- Built risk classification models for stunting in low birth weight and premature infants using Random Forest, Logistic Regression, and XGBoost.
- Performed EDA, statistical analysis, and feature selection on clinical data to identify key predictors.
- Handled class imbalance with SMOTE and class weighting, enhancing model sensitivity.
- Assessed models using ROC-AUC, Sensitivity, and Specificity, with cross-validation to ensure robustness.

**DBS Foundation Coding Camp 2024**

**May 2024 - October 2024**

DBS Bank

*Machine Learning Engineer*

- Selected as one of 597 top participants out of 60,000 applicants at the Expert level.
- Developed an end-to-end sarcasm detection ML pipeline using TensorFlow Extended (TFX).
- Implemented data ingestion, data validation, and feature engineering with TF Transform, followed by model training using Keras.
- Performed automated model evaluation with TensorFlow Model Analysis and conducted hyperparameter tuning using KerasTuner to optimize model performance.

**Kampus Merdeka - MSIB Batch 5**

**August 2023 - December 2023**

PT Great Edu Global Mahardika

*Data Analyst*

- Analyzed Indonesia's air quality data using K-Means Clustering and Decision Tree Regression to identify key pollution patterns and trends.
- Clustered regions into five groups based on AQI, PM2.5, CO, NO<sub>2</sub>, and O<sub>3</sub> levels, determining the optimal number of clusters with the Elbow Method and Silhouette Score.
- Built an interactive dashboard in Looker Studio to visualize insights and deliver data-driven policy recommendations.

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**CERTIFICATION**

**Badan Nasional Sertifikasi Profesi (BNSP)**

**February 2024**

*Associate Data Science*

- Collected and cleaned medical patient data for predictive analysis.
- Explored data patterns and identified relationships between features and diabetes diagnosis outcomes.
- Built predictive models using Decision Tree, Random Forest, and AdaBoost algorithms.
- Evaluated and optimized models using accuracy, precision, recall, F1-score, and cross-validation.
- Documented the entire modeling process and prepared comprehensive analysis reports.

**Alibaba Cloud Certification**

**August 2024**

*Associate Big Data*

- Earned the Alibaba Cloud Certified Associate (ACA) credential in Big Data.
- Completed the official certification exam as an entry-level validation of proficiency in the Alibaba Cloud Big Data ecosystem.
- Gained a strong understanding of big data processing concepts using Alibaba Cloud services.
- Familiar with the architecture and applications of MaxCompute, DataWorks, Quick BI, and E-MapReduce.
- Validated skills in data integration, management, analysis, and visualization within cloud environments.

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**SOFT SKILLS**

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|---------------------|-----------------------|------------------------|-------------------|
| • Growth Mindset    | • Collaborative       | • Interpersonal skills | • Time Management |
| • Communication     | • Problem Solving     | • Analytical Thinking  | • Self-motivated  |
| • Critical Thinking | • Continuous Learning |                        |                   |

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**TECHNICAL SKILLS**

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|-------------------------------|--------------|-------------------|---------------------------|
| • Machine Learning & Modeling | • Prometheus | • Google Colab    | • Looker Studio, Metabase |
| • MLOps & Deployment (Newbie) | • Grafana    | • Hugging Face    | • Matplotlib              |
| • Data Handling & Analysis    | • MLFlow     | • Dagshub         | • Seaborn                 |
| • Feature Engineering         | • TFX        | • Docker (Newbie) |                           |
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