

Rahmat Tegar Patriot Hari Lambang

Informatics Engineering Student

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Profile

Informatics Engineering student with strong interests in Data Mining, Machine Learning, Internet of Things (IoT), and Computer Science. Experienced in academic research, web development, and intelligent system development. Passionate about transforming data into valuable insights and building technology-based solutions that provide real-world impact.

With the principle of "**Jauh Pandangan, Luas Wawasan**", continuously developing technical and analytical skills through independent learning, research publication, and project implementation.

Motto

"Jauh Pandangan, Luas Wawasan."

Education

SMK Negeri 4 Bojonegoro

Software Engineering (Rekayasa Perangkat Lunak)

2018 – 2021

Relevant Areas:

- Software Development
 - Web Programming
 - Database Fundamentals
 - Computer Networking
 - Programming Logic
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Universitas Nahdlatul Ulama Sunan Giri

Bachelor of Informatics Engineering

2022 – Present

Relevant Areas:

- Data Mining
 - Machine Learning
 - Web Development
 - Internet of Things (IoT)
 - Computer Science
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Research Experience

Indonesian Gold Price Forecasting Using Simple and Stacked LSTM with Expanding Window

Journal of Applied Informatics and Computing (JAIC) | Politeknik Negeri Batam | Sinta 3
2026

- Developed forecasting models using Simple LSTM and Stacked LSTM architectures.
- Implemented expanding window validation for time series forecasting.
- Evaluated forecasting performance using MAE, RMSE, and MAPE.
- Conducted comparative analysis of deep learning architectures for gold price prediction.

Technologies: Python, TensorFlow, LSTM, Time Series Forecasting

Smart Greenhouse System Based on IoT Using Firebase for Temperature and Humidity Monitoring

Jurnal Mahasiswa Teknik Informatika (JATI) | Institut Teknologi Nasional Malang | Sinta 4
2026

- Designed an IoT-based greenhouse monitoring system.
- Integrated ESP32 and DHT22 sensors with Firebase.
- Developed real-time environmental monitoring features.
- Implemented responsive web-based monitoring dashboard.

Technologies: ESP32, Firebase, IoT, DHT22, HTML, CSS, JavaScript

Perbandingan Algoritma C4.5 dan Random Forest untuk Klasifikasi Kualitas Tembakau Berdasarkan Pola Aroma Menggunakan Electronic Nose

Jurnal Informatika: Jurnal Pengembangan IT (JPIT) | Universitas Harkat Negeri | Sinta 3

2026

- Developed an Electronic Nose (E-Nose) system to capture volatile aroma patterns from tobacco samples.
- Applied and compared the C4.5 and Random Forest algorithms for tobacco quality classification.
- Performed data preprocessing, feature extraction, and model evaluation using multiple performance metrics.
- Achieved high classification performance, demonstrating the effectiveness of machine learning for aroma-based tobacco quality assessment.

Technologies: ESP32, Electronic Nose, MQ-4, MQ-7, MQ-135, Python, Scikit-learn, C4.5, Random Forest

Projects

Web Portfolio - 2026

- Developed responsive personal portfolio website using modern UI design.
- Implemented research showcase, project gallery, SEO optimization, and interactive components.
- Integrated custom domain deployment using Vercel.

Technologies: HTML, CSS, JavaScript, Vercel

Rice Leaf App - 2026

- Developed responsive web-based rice leaf disease application.
- Implemented Python integration for machine learning experimentation.
- Focused on simple and accessible agricultural technology solutions.

Technologies: Python, HTML, CSS, JavaScript

Greenhouse App - 2025

- Developed responsive greenhouse monitoring website integrated with Firebase.
- Built real-time monitoring interface for IoT greenhouse systems.
- Implemented environmental data visualization and responsive UI.

Technologies: HTML, CSS, JavaScript, Firebase

IoT Smart Greenhouse Monitoring System - 2025

- Built IoT monitoring system using ESP32 and DHT22 sensors.
- Integrated Firebase for real-time environmental monitoring.
- Developed responsive dashboard for greenhouse monitoring.

Technologies: ESP32, Firebase, IoT, JavaScript

Web Poliklinik - 2025

- Developed web-based clinic management system.
- Implemented patient and service management integrated with database systems.
- Built responsive and structured interface for healthcare administration.

Technologies: HTML, CSS, PHP, MySQL

Web Pemesanan Travel - 2024

- Developed travel booking information system integrated with database management.
- Implemented responsive booking interface and transaction flow.
- Focused on usability and data integration.

Technologies: HTML, CSS, JavaScript, MySQL

App Akar Hijau - 2024

- Developed Android application using Flutter framework.
- Integrated application features with database systems.
- Focused on responsive mobile UI and application usability.

Technologies: Dart, Flutter, Android

Microcontroller Automatic Watering System - 2023

- Developed automatic watering prototype using Soil Moisture sensor.
- Implemented microcontroller-based hardware automation system.
- Focused on smart agriculture and automation concepts.

Technologies: C++, Arduino IDE, Soil Moisture Sensor

Community & Organization

Member of AIDI (Asosiasi Ilmuan Data Indonesia)

- Active member of AIDI (Asosiasi Ilmuan Data Indonesia).
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Administrative Experience

Administrative Support Staff – SMK Negeri 4 Bojonegoro

2022 – Present

- Assisted in administrative document management and school data organization.
 - Supported digital documentation and reporting activities.
 - Developed communication, teamwork, and organizational skills through school administrative activities.
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Skills

Programming & Development

- HTML
- CSS
- JavaScript
- Python
- Firebase
- Git & GitHub
- Vercel

Data & AI

- Data Mining
- Machine Learning
- Time Series Forecasting
- LSTM
- Expanding Window Validation

Internet of Things

- ESP32
- Arduino
- DHT22 Sensor
- Smart Monitoring Systems

Languages

- Indonesian (Native)
 - English (Intermediate)
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Interests

- Machine Learning
- Data Science
- Artificial Intelligence
- Internet of Things (IoT)
- Research & Technology Development