



DAFFA AHMAD PANGREKSA

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Driyorejo, Gresik, Jawa Timur, 61177 Indonesia

A Data Science undergraduate at Universitas Negeri Surabaya. Possesses hands-on experience in data analysis and machine learning from national data competitions and academic project. Highly interested in predictive modeling and artificial intelligence. Known as a detail-oriented, communicative and structured professional with critical analysis skills, ready to deliver high-quality data-driven insights.

Education Level

Universitas Negeri Surabaya - Surabaya, Indonesia Jun 2024 - Jul 2028 (Expected)

Bachelor of Data Science, 3.92/4.00

- Relevant Course: Programming (Python), Discrete Math, Calculus, Text Processing, Statistics, Data Structure and Algorithms, UI/UX, Database, Data Integrity, Data Wrangling, Exploratory Data Analysis, Machine Learning/AI, Image and Signal Processing, Data Mining, and so on.

Professional Experience

Universitas Negeri Surabaya (UNESA) - Data Science Study Program - Surabaya, Indonesia Sep 2025 - Dec 2025

Basic Programming Teaching Assistant

- Mentored 72 undergraduate students across 2 classes by leading weekly laboratory sessions, effectively guiding them through complex Python coding exercises and debugging processes.
- Evaluated and provided constructive feedback on weekly programming assignments, resulting in measurable improvements in students' code efficiency, structure, and readability.
- Collaborated with the primary lecturer to align the practicum syllabus with academic standards, ensuring 100% of the laboratory materials met the core requirements of the Data Science curriculum.

Universitas Trunojoyo Madura - Madura, Indonesia May 2025 - Jun 2025

6th Place Finalist - Data Mining Competition (DISCO)

The Data Mining Competition (DISCO) is a national-level academic competition organized by Universitas Trunojoyo Madura, challenging participants to solve real-world business and economic problems using advanced data analytics and machine learning.

- Developed an integrated data analysis solution to identify and map strategic market opportunities for over 5,000 Micro, Small, and Medium Enterprises (MSMEs).
- Engineered and optimized a revenue prediction model utilizing the XGBRegressor algorithm to forecast future business performance with high precision.
- Achieved an outstanding R-squared score of 0.91, demonstrating superior model reliability in providing data-driven growth strategies for the analyzed sectors.
- Collaborated within a 3-person team to conduct strategic profit segmentation across 3 distinct tiers (top 20%, middle 60%, bottom 20%), delivering actionable insights for targeted decision-making and market expansion.

Organisational Experience

ACTION 2025 - HMP Sains Data (Himasada) UNESA - Surabaya, Indonesia Jun 2025 - Dec 2025

Event Division Staff

ACTION 2025 is a national-level Data Science and Analytics Competition organized by Himasada UNESA, aimed at fostering analytical and creative skills among students nationwide.

- Planned and executed the end-to-end event flow for the national infographics competition, ensuring a highly structured and seamless experience for over 150 participants.
- Served as the primary moderator during the competition, effectively facilitating clear communication and interaction between 3 judges, participants, and the organizing committee.
- Compiled and managed the final competition data, ensuring high accuracy and transparency in the evaluation process to determine the national winners efficiently.

RELOUD 2024 - HMP Sains Data (Himasada) UNESA - Surabaya, Indonesia Sep 2024 - Nov 2024

Logistics & Equipment Staff

RELOUD 2024 or LKMM Pra-TD (Pre-Basic Student Management Leadership Training) is an annual organizational development program designed to cultivate leadership and managerial skills among freshman students.

- Managed and allocated comprehensive logistical requirements for a large-scale student inauguration event, ensuring 100% equipment readiness for over 300+ participants without any operational delays.
- Coordinated proactively with 5+ internal divisions and external vendors to procure necessary event materials, successfully fulfilling all

technical needs while maintaining 15% cost efficiency within strict budget constraints.

- Supervised the distribution, maintenance, and safe return of all event assets and technical equipment, maintaining an organized inventory system to prevent loss and operational delays during the event.

Skills & Other Experience

- **Projects:** Diabetes Risk Prediction (Machine Learning), Makan Bergizi Gratis (MBG) Sentiment Analysis (Natural Language Processing), Music Genre Classifier (Digital Signal Processing), Intalenta - Course Recommendation System (Data Structures & Algorithms), Calmy - Daily Calorie Tracker (Basic Programming - Python), and others.
- **Hard Skills:** Programming (Python, R), Microsoft Office (Excel, Word, PPT), Database (SQL), Machine Learning & Deep Learning, Statistical Modeling, Natural Languange Processing (NLP), Web Scraping, Data Mining, Data Analysis & Visualization, Signal & Image Processing
- **Soft Skills:** Detail-Oriented, Critical & Analytical Thinking, Problem Solving, Time Management, Project Management, Teamwork & Collaboration, Adaptability, Mentoring