

Muhammad Rivaro Farrelino Gozali

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Final-year Information Technology student (GPA: 3.93/4.00) with strong technical expertise in Python, SQL, and applied statistics. Skilled in analyzing, developing, and evaluating code across various projects involving data processing, machine learning, and backend systems. Experienced in mentoring, peer feedback, and collaborative software development through academic, organizational, and industry involvement. Passionate about writing clean, maintainable code and continuously improving software quality through best practices.

EDUCATION

Universitas Brawijaya – Malang

Aug 2022 – Present

Undergraduate in Information Technology, 3.92/4.00

- Achievement:** Awarded 4th Place in **PKM-RE Dekan Cup FILKOM 2022** for innovative scientific paper using Deep Learning.
- Organization:** AIESEC in Universitas Brawijaya – Global Village Summer 2024.

EXPERIENCE

PT Telkom Indonesia – Jakarta

May 2025 – Aug 2025

Data Scientist Intern

- Extracted and prepared structured operational datasets across regional units for business performance analysis.
- Developed an interactive dashboard for internal stakeholders using SQL and Python-based pipelines.
- Automated data consolidation tasks to support scalable performance tracking and reduce manual reporting.

Laboratory Teaching Assistant – Malang

Sep 2024 – Dec 2024

Algorithm and Data Structures

- Mentored 38 students in implementing efficient algorithms and clean code structure.
- Reviewed student code submissions weekly and provided structured feedback based on academic rubrics.
- Compiled performance data and provided feedback to course coordinators.

PROJECT

Digitalization of the Maternal and Child Health Book (KIA)

- Developed a content recommendation system using neural networks and user medical history embeddings.
- Built and deployed a maternal health risk classifier using physiological indicators (e.g., BP, glucose, symptoms).
- Collaborated across frontend, backend, and deployment to deliver an MVP via FastAPI.

Blood Cell Image Classification: CNN with TensorFlow & Keras

- Achieved 98% test accuracy in classifying 4 blood cell types (Eosinophil, Lymphocyte, Monocyte, Neutrophil).
- Preprocessed diverse-resolution medical images with techniques such as padding, thresholding, and contour detection.

Social Assistance Eligibility Prediction: Machine Learning Eligibility Prediction

- Cleaned and wrangled structured household data for predictive modeling.
- Performed EDA using statistical summaries and visualizations to uncover key eligibility indicators.
- Presented business-value findings for optimized aid targeting.

TRAINING

DBS Foundation Coding Camp – Machine Learning Engineer

Feb 2025 – Jul 2025

- Selected as one of 6,000 participants in a competitive, fully-funded national tech training program organized by DBS Foundation in collaboration with Dicoding Indonesia.
- Led the machine learning development in the **capstone project “Digitalization of the Maternal and Child Health Book (KIA)”**, a full-stack web application designed to improve maternal health services in Indonesia.

SKILLS

- **Programming & Tools:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib), SQL (PostgreSQL, MySQL), GitHub
- **Data Science & Analytics:** Exploratory Data Analysis, Data Wrangling & Preprocessing, Business Insight Generation, Basic Statistics, Machine Learning (Classification, Recommender Systems)
- **Code Quality & Feedback:** Code Review, Constructive Technical Feedback, Documentation, Collaborative Debugging
- **Visualization:** Matplotlib, Seaborn
- **Automation & Visualization:** Dashboard Automation, Google Data Studio, Power BI, Jupyter Notebook
- **Soft Skills:** Communication, Pedagogical Writing, Analytical Thinking, Time Management, Peer Mentoring