

Muhammad Farrel Caesarian



Date of Birth : 27-03-2006
Location : Malang, East Java
Phone Number : (+62)82132570837
Position Applied : Developer
Portfolio : <https://11nq.com/9xh9k>

PROFILE

Enthusiastic Informatics Engineering student with a strong interest in software engineering, computer vision, and data-driven systems. Experienced in building scalable backend applications, developing AI-powered features, and working with data pipelines using Python and modern frameworks. Passionate about creating reliable, high-impact software that scales to real-world users.

EDUCATION

State Polytechnic of Malang (GPA 3.82) Malang, East Java
2023 – Present

ADDITIONAL TRAINING

Data Analyst Course by DQLab Malang, East Java
Sep 2025 – Oct 2025

EXPERIENCE

Software Engineer Intern Surabaya, East Java
PT Kosmetika Global Indonesia Jan 2026 – June 2026

- Developed a high-precision cosmetics raw material weighing system using MQTT & RS232, boosting operational speed and accuracy by 20%.
- Demonstrated Kosmesia’s AI Assistant (KIVA) to clients, enhancing consultation efficiency and customer experience.
- Designed and developed a digital Certificate of Analysis (CoA) workflow module to replace manual processes, enabling real-time document monitoring and reducing data entry errors by 70%.
- Built image processing techniques to extract critical information such as batch numbers and expiration dates, significantly reducing manual inspection time and improving data accuracy.

Project Manager & Machine Learning Engineer Malang, East Java
State Polytechnic of Malang Nov 2025 – Dec 2025

- Led a cross-functional team of 5 to develop a high-accuracy facial expression recognition system, overseeing the end-to-end development lifecycle from data collection to model deployment.
- Curated a primary dataset by conducting direct data acquisition, ensuring high-quality and diverse samples for robust model training.
- Implemented a Support Vector Machine (SVM) algorithm that achieved a 92% accuracy rate in classifying multiple facial expressions, optimizing feature extraction for real-time performance.
- Managed project milestones and resource allocation, ensuring all technical objectives were met within the designated 1 month roadmap.

Data Analyst Project: Business Decision Research
DQLab

Malang, East Java
Oct 2025

- Analyzed retail datasets to generate actionable insights for business decision-making.
- Created data visualizations using Python and Matplotlib to identify key sales trends.
- Built predictive models to forecast customer purchasing behavior.

Data Classification and Summarization
IBM x Hacktiv8

Malang, East Java
Sep 2025

- Delivered visualization reports to improve public awareness of pollution issues.
- Predicted daily air pollution in Jakarta with 93% accuracy using machine learning models.
- Leveraged IBM Granite AI to summarize articles within 2 -3 sentences.
- Utilized IBM Granite AI to classify the causes of pollution into 2 out of 5 available options.

Project Manager & Full-Stack Web Developer
State Polytechnic of Malang

Malang, East Java
May 2025 – June 2025

- Led a 5-member cross-functional team in the end-to-end development of a full-stack web application using Laravel and MySQL.
- Managed the project lifecycle, from scope definition to milestone scheduling, ensuring timely delivery of the final product.
- Served as the primary liaison between the development team and stakeholders, presenting weekly progress reports to ensure alignment.

Front-End Web Developer
State Polytechnic of Malang

Malang, East Java
Oct 2024 – Dec 2024

- Analyzed user behavior to design intuitive web layouts.
- Designed and implemented responsive user interfaces using modern front-end frameworks.
- Optimized UI performance and ensured cross-platform compatibility.

COMPETITION & AWARDS

- **3rd Place – INTERCOM Hackathon (POLINEMA, Information Technology Department)**
Developed HealthGrade, a scalable PWA-based nutrition assistant that scans product barcodes and packaging to generate real-time Nutri-Grade (A–D) ratings using AI-powered OCR and LLMs. Enabled faster, data-driven food choices through visual grading and an AI nutrition chatbot, contributing to SDG 3 (Good Health) and SDG 12 (Responsible Consumption).
- **Top 10 – INTELECTA CUP Data Mining Competition (Telkom University)**
Built a machine learning-based weather forecasting model to support agricultural decision-making. Performed data cleaning and missing value imputation using MICE, applied advanced feature engineering, and trained a LightGBM model optimized with Optuna hyperparameter tuning, achieving 81.7% MAPE.

ORGANIZATION EXPERIENCE

- Information Technology Essay Writing Mentor 2024
Department English Community
 - Mentored 20+ students in weekly workshops on effective essay writing techniques.
- Information Technology Coordinator of Training and Development 2025 - Present
Department English Community
 - Organized Expo Kelembagaan, an event to promote ITDEC, resulting in a 100+ participants.
 - Led the Onboarding Seminar to introduce ITDEC and support career growth initiatives.

HARD SKILLS

- **Programming Languages:** Python, SQL, JavaScript, TypeScript, React, PHP, C++, C#.
- **Web Framework & Libraries:** Django, Laravel, NextJS, React, React Expo.
- **Data Analysis & Manipulation:** Pandas, NumPy.
- **Data Visualization:** Matplotlib, Seaborn, Tableau, Power BI.
- **Machine Learning:** Scikit-learn, TensorFlow/Keras.
- **Tools:** Kaggle Notebook, Google Colab, Excel, Flask.

SOFT SKILLS

- Problem Solving
- Critical Thinking
- Leadership
- Communication
- Teamwork

FOREIGN LANGUAGE SKILLS

English : Upper Intermediate

- TOEIC 805/990

CERTIFICATIONS

- Uji Kemahiran Berbahasa Indonesia (UKBI) — Score 696 (Sangat Unggul)
- AI class ASEAN — ASEAN Foundation (2025)
- Python for Data Professional — DQLab (2025)
- Python for Data Science — DQLab (2025)
- Data Quality with Python — DQLab (2025)
- Exploratory Data Analysis with Python — DQLab (2025)
- Data Classification and Summarization using IBM Granite — IBM x Hactiv8 (2025)
- Machine Learning with Python — DQLab (2025)

CONTACT & INFORMATION

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GitHub : <https://github.com/Quincy17>