

KIARA AZZAHRA

Data Engineer | Data Analyst | Machine Learning

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portfolio: <https://kiaraazzahra.web.id/>

I'm a fresh graduate in Informatics from Universitas Muhammadiyah Malang, Indonesia. I have a strong interest in data analysis and machine learning, particularly in text and image-based projects. I have hands-on experience in data collection, preprocessing, and analysis, as well as creating predictive models and data visualizations. Proven ability to design, train, and deploy end-to-end Machine Learning models using TensorFlow and cloud technologies, supported by strong skills in data preprocessing, visualization, and analytical storytelling to drive actionable insights.

EDUCATION

Universitas Muhammadiyah Malang

Malang

Bachelor of Informatics | GPA: 3.94/4.00

2021 – 2025

- Served as Laboratory Assistant for 3 years, guiding students during practical sessions and assisting in various Informatics courses.
- Actively involved in INFOTECH (Assistant Organization) as Treasurer (1 term), Social Media Division member, and committee member in several events (ITCB, Welcome Party, and 2023 Cabinet Election).
- Authored academic modules for *Basic Programming (C)*, *Data Mining*, and *Machine Learning (Python)*.
- Volunteered as staff in the Informatics Department, handling student data and administrative tasks.
- Worked as Content Manager for the university's website, maintaining and updating academic content.
- Selected participant of Bangkit Academy 2023 (MBKM – Machine Learning Path), with a capstone project on *Food Image Nutrition Detection* that reached 97% accuracy using TensorFlow and Cloud technologies.
- Conducted undergraduate thesis on Diabetic Retinopathy Image Classification by Severity Level, achieving 82% accuracy through proposed preprocessing methods.

EXPERIENCE

Infotech UMM

Malang

Assistant Laboratory

Jul 2022 – Aug 2025

- Assisted practicum sessions by teaching module materials and evaluating weekly coding assignments.
- Developed learning materials for the "Basic Programming" practicum using the C language, serving as a comprehensive guide for first-year Informatics students. Additionally, I created an e-learning module for the "Data Mining" practicum using Python, designed to teach students how to analyze and work with data. I also authored a dedicated "Machine Learning" module to help students understand core ML concepts and implement common algorithms using Python in practical scenarios.
- Oversaw Infotech's financial activities, ensured monthly financial transparency, organized budgets and logistics for events, and designed a financial process workflow.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

Malang

Machine Learning Cohort (Remote)

Feb 2024 – July 2024

- Applied ML techniques in a team project, developing Product Track, an application aimed at preventing child stunting for pregnant women with 97% accuracy.
- Selected as Top 50 Capstone Project among all participants for innovation and real-world impact.
- Enhanced problem-solving, critical thinking, and productivity through structured assignments and guidance from industry experts.

Vokal.AI

Malang

Data Audio Reviewer (Contract)

Jan 2024 – Apr 2024

- Reviewed 1,000–1,500 audio data weekly, ensuring compliance with company criteria and standards.

South Jakarta

Assistant Product Manager (Internship)

Nov 2023 – Dec 2023

- Coordinated a team of interns (Mobile Developers, Backend Developers, and Quality Assurance) in enhancing the Ngaji.AI application. Created use-case diagrams, feature reports, and UI designs using Figma.

Data Collector and Annotator (Internship)

- Collected field data and conducted surveys for the Ngaji.AI application. Specialized in audio data annotation and labeling, focusing on Al-Qur'an recitations. Achieved high productivity, annotating an average of 600–1,000 audio data items per day (or 2,000–3,000 data points every 2-4 days). Systematically organized these labeled recordings based on participant ability and age for effective AI model training.

SKILL

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- Data Science & Analytics:** Data preprocessing, EDA, Data visualization (Pandas, NumPy, Matplotlib, Seaborn), Probability & Statistics
 - Machine Learning & AI:** Supervised & Unsupervised Learning, Deep Learning, TensorFlow, Scikit-learn, TensorFlow Lite, TensorFlow.js
 - Deployment & Cloud:** Model deployment, Data pipelines, Distributed training
 - Soft Skills:** Problem-solving, Critical thinking, Time Management, Collaboration, Teaching & Mentoring,

PROJECTS**SUARGA (Pregnancy Welfare in One Touch)**

- Developed an AI-powered nutrition analysis system to prevent child stunting by providing pregnant women with accurate meal-based nutritional insights.
- Built an image recognition model using TensorFlow and Keras to analyze food images with 97% accuracy, enabling precise nutrient detection.
- Designed a scalable architecture integrating machine learning inference with web APIs, empowering users to make informed dietary decisions.

URL: [Project: SUARGA](#)

Diabetic Retinopathy Image Classification

- Designed and fine-tuned a CNN model to classify diabetic retinopathy severity from retinal fundus images.
- Applied advanced preprocessing (contrast enhancement, normalization) to improve image quality and model generalization.
- Achieved 82% classification accuracy, demonstrating strong capability in deep learning and medical image analysis.

URL: [Project: Diabetic Retinopathy Classification](#)

CERTIFICATION**Data & Analytics**

- Share Data Through the Art of Visualization
- Probability & Statistics for Machine Learning & Data Science
- Mathematics for Machine Learning and Data Science Specialization
- Linear Algebra for Machine Learning and Data Science
- Calculus for Machine Learning and Data Science

Machine Learning & AI

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Natural Language Processing in TensorFlow
- Machine Learning Specialization
- Convolutional Neural Networks in TensorFlow
- TensorFlow: Data and Deployment Specialization
- TensorFlow: Advanced Techniques Specialization
- Generative AI for Everyone

Full list available at: [Certificates Kiara Azzahra](#)