

IFFO ELSANDE PRATAMA PUTRA

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Professional Summary

Fresh graduate of Informatic Engineering with interest and experience in machine learning and deep learning development using Python, PyTorch, and Tensorflow. Experienced in data preprocessing, model training, and performance evaluation to build AI-based solutions. Strong analytical and problem-solving skills, ready to thrive in a technology and data-driven environment.

Education

Surabaya State University

Bachelor of Informatics Engineering

Surabaya, East Java

August 2021 – January 2026

- Grade Point Average: 3.85 / 4.00
- Thesis: DoS Attack Classification on Blockchain Networks Using Proximal Policy Optimization
- Relevant courses: Data Science, Machine Learning, Software Engineering, Algorithms, and Data Structures.
- Projects: Line Detection, Image Segmentation, Anomaly Detection.

Experience

Cons Code

Freelance – Machine Learning Engineer

Surabaya, East Java

July 2024 – Present

- Developed a machine learning model that improved prediction accuracy by 15%.
- Automated data cleansing flow, reducing processing time by 30%.

PT Radnet Digital Indonesia

Internship – Engineer

Surabaya, East Java

October 2024 – January 2025

- Developing a website for MSMEs using the Django framework
- Be a speaker in a webinar related to website development
- Learn and implement the basics of the Linux operating system

PT Kinema Systrans Multimedia

Internship – IBM Advanced AI Program

Batam, Riau

February 2024 – June 2024

- Contribute to the development and deployment of generative AI models for commercial use.
- Implementing AI governance principles, data management with Watsonx.data, and cybersecurity best practices.
- Building and evaluating deep learning models using TensorFlow and PyTorch.

Skills

Programming: Python, Java, C++, JavaScript, HTML, CSS

Framework: Django, Flask, Streamlit, FastAPI (RESTful API)

Data & AI Tools: SQL, TensorFlow, PyTorch, Scikit-Learn, Data Science, Machine Learning, Deep Learning

Tools & Technologies: Git, Docker

Soft Skills: Critical Thinking, Creativity, Effective Communication, Rapid Learning, Project Management, Problem Solving

Selected Projects

1. Classification of DoS Attacks on Blockchain using PPO

Developing and evaluating a Proximal Policy Optimization (PPO) based model to detect and classify Denial-of-Service attacks on blockchain networks, improving detection accuracy and response efficiency.

2. Disease Detection in Tomato Plants

Developed an image classification model using TensorFlow and TensorFlow Hub, leveraging a pre-trained ResNet-v2 architecture to classify tomato plant disease images into multiple categories.

3. Classification of Used Goods

Manually collected image data from multiple online sources, pre-processed it by resizing objects and removing backgrounds, enhanced the dataset using Roboflow, and deployed the final model via Roboflow API for real-time demonstration.

4. Diabetes Classification System

Design and implement Random Forest and MLP models to classify diabetes cases based on patient data. Evaluate performance using accuracy, precision, recall, F1 score, and AUC-ROC metrics to ensure robust model generalization.

Organizational experience

Faculty of Engineering PKKMB 2023

Volunteer - Disciplinary Commission

- Enforce faculty regulations and conduct disciplinary hearings.

Surabaya State University

August 2023

Faculty of Engineering PKKMB 2022

Volunteer - Group Responsible Person

- Guide and mentor new students during academic orientation sessions.

Surabaya State University

August 2022

Courses & Training

Dicoding Indonesia

- Basic Data Science and Machine Learning

Bandung, West Java

January 2024

PT Kinema Systrans Multimedia

- IBM Advanced AI Academy: Generative AI, AI Governance, Watsonx.data, Cybersecurity, and Deep Learning Foundations.

Batam, Riau

February 2024 – June 2024