IFFO ELSANDE PRATAMA PUTRA

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Portfolio:https://elsande-portfolio.vercel.app/

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   **Surabaya, East Java**
Bachelor of Informatics Engineering   **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.

Experience

Cons Code   **Surabaya, East Java**
Freelance – Machine Learning Engineer   **July 2024 – Present**
- Solved client-specific prediction problems by designing and deploying machine learning models, improving accuracy by up to 15%
- Built automated data cleansing and preprocessing pipelines tailored to client datasets, reducing processing time by 30%
- Designed scalable end-to-end ML workflows to support client production and deployment needs

PT Radnet Digital Indonesia   **Surabaya, East Java**
Internship – Web Developer Intern   **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   **Batam, Riau**
AI Engineering Intern – IBM Advanced AI   **February 2024 – June 2024**
Program (Independent Study)
- 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

1. **Programming:**
   Python, Java, C++, JavaScript, HTML, CSS
2. **Framework:**
   Django, Flask, Streamlit, FastAPI (RESTful API)
3. **Data & AI Tools:**
   SQL, TensorFlow, PyTorch, Scikit-Learn, Data Science, Machine Learning, Deep Learning
4. **Tools & Technologies:**
   Git, Docker
5. **Soft Skills:**
   Analytical Thinking, Structured Problem Solving, Technical Communication, Adaptive Learning

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   **Surabaya State University**
Volunteer - Disciplinary Commission   **August 2023**
   - Enforce faculty regulations and conduct disciplinary hearings.

Faculty of Engineering PKKMB 2022   **Surabaya State University**
Volunteer - Group Responsible Person   **August 2022**
   - Guide and mentor new students during academic orientation sessions.

Courses & Training

Dicoding Indonesia   **Bandung, West Java**
                                                                                 January 2024

   - Basic Data Science and Machine Learning

PT Kinema Systrans Multimedia   **Batam, Riau**
                                                                        February 2024 – June 2024
   - IBM Advanced AI Academy: Generative AI, AI Governance, Watsonx.data, Cybersecurity, and Deep Learning Foundations.