

IFFO ELSANDE PRATAMA PUTRA

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PROFILE

Fresh graduate of Informatics Engineering with interest and experience in machine learning and deep learning development using Python, PyTorch, and Tensorflow. Used to data preprocessing, model training, and performance evaluation to build AI-based solutions. Have good analytical and problem-solving skills and are ready to evolve in a technology and data-based environment.

WORK EXPERIENCE

Freelance Data Science and Machine Learning Engineer

– Cons Code

Surabaya, East Java | July 2024 – Present

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

Internship – Engineer – PT Radnet Digital Indonesia

Surabaya, East Java | October 2024 – January 2025

- Developed a website for MSMEs using the Django framework
- Served a speaker in webinars regarding website development
- Learned and implemented Linux operating system fundamentals

Internship – IBM Advanced AI Program – PT Kinema Systrans Multimedia

Batam, Riau | February 2024 – June 2024

- Contributing to the development and deployment of generative AI models for commercial use.
- Apply AI governance principles, data management with Watsonx.data, and cybersecurity best practices.
- Build and evaluate deep learning models using TensorFlow and PyTorch.

EDUCATION

Bachelor of Informatics Engineering – State University of Surabaya

Surabaya, East Java | August 2021 – Present

GPA: 3.85 / 4.00

Relevant courses: Data Science, Machine Learning, Software Engineering, Algorithms, and Data Structures.

Project: Line detection, image segmentation, anomaly detection.

MAIN PROJECTS & RESEARCH WORK

Classification of DoS Attacks on Blockchain using PPO

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

Disease Detection in Tomato Plants

Developed an image classification model using TensorFlow and TensorFlow Hub, leveraging the pre-trained ResNet-v2 architecture to classify disease images of tomato plants into several categories.

Classification of Used Goods

Manually collect image data from multiple online sources, perform pre-processing by resizing objects and removing

backgrounds, enhance datasets using Roboflow, and deploy final models via the Roboflow API for real-time demonstrations.

- **Diabetes Classification System**

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

SKILLS

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

Frameworks: 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, Quick Learning, Project Management, Problem Solving

ORGANIZATIONAL EXPERIENCE

PKKMB Faculty of Engineering 2023 – State University of Surabaya

- Committee (Disciplinary Commission) – Enforces faculty regulations and conducts disciplinary hearings.

PKKMB Faculty of Engineering 2022 – State University of Surabaya

- Committee (Group Chair) – Mentors and mentors new students during academic orientation sessions.

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 the Deep Learning Foundation.