Ariel Pratama Lesmana

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Summary

Aspiring Machine Learning Engineer with a strong academic background in **Computer Vision** and hands-on experience in developing and deploying machine learning models. Proficient in **Python, TensorFlow, OpenCV, and Scikit-learn**, with a proven ability to build innovative solutions such as the **Kelpie Personal Trainer** library and **Inventory Stock Prediction API**. Passionate about leveraging **computer vision** and **machine learning** to solve real-world problems, improve decision-making, and create impactful applications. Seeking a **remote junior machine learning position** to further develop my expertise in AI/ML while contributing to cutting-edge projects.

Experience

ETHERVAL IT Consultancy | Surabaya, Indonesia
Software Engineer (Machine Learning Focused) | 08/2023 - Present

- Developed and optimized machine learning models, including **K-Nearest Neighbor (KNN)** and **Convolutional Neural Networks (CNN)**, achieving **90+% accuracy** for client projects.
- Designed and implemented **AWS Lambda functions** to generate similar movesets, enhancing business responsiveness and scalability.
- Conducted **data preparation and cleaning** to ensure high-quality inputs for model training and evaluation.
- Collaborated with cross-functional teams using **JIRA** and **Google Colab** to prototype and deploy machine learning solutions.
- Earned certifications in **Basic Machine Learning (Kaggle)**, **Data Visualization (Dicoding)**, and **Basic Data Science (Dicoding)**.

Education

Institut Sains dan Teknologi Terpadu Surabaya (iSTTS) | Surabaya, Indonesia
Informatics | 08/2023

- Graduated magna cum laude—3.8+ GPA
- **Major: Computer Science in Computer Vision**
- Relevant Coursework: **Machine Learning, Advanced Math, Data Structures, Algorithms, Computer Vision, Natural Language Processing, Data Mining, Statistics, Web Mining**

Projects

1. Kelpie Personal Trainer | GitHub | PyPI

- Developed an open-source Python library for **body type classification** and **exercise recommendation** using **K-Nearest Neighbor (KNN)** and **Convolutional Neural Networks (CNN)**.
- Integrated **OpenCV** and **Google's MediaPipe** to calculate movement accuracy and provide real-time feedback.
- Result: Successfully deployed on PyPI, enabling public use and contribution.

2. **Image Sorter with Face Recognition**

- Built a Python program to automatically sort images based on detected faces using **OpenCV** and a pre-trained **face recognition model**.
- Result: Streamlined image organization for personal and professional use.

3. **Inventory Stock Prediction API** | GitHub

- Created a Flask-based API to predict daily inventory stock requirements using **ARIMA, SVM, and Linear Regression**.
- Result: Achieved **90% prediction accuracy**, aiding in efficient inventory management.