



MUHAMMAD LUTHFI JULIANDRI

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ABOUT ME

I am a Software Engineer with a solid foundation in both machine learning and full-stack development. With experience building intelligent, data-driven systems and scalable web and mobile applications, I bridge the gap between AI solutions and practical, user-friendly software products. My expertise includes end-to-end machine learning using TensorFlow, as well as web technologies such as PHP, Laravel, JavaScript, and responsive front-end frameworks. I've built and deployed real-time computer vision applications integrated with IoT, and I'm passionate about developing impactful software that solves real-world problems. Through continuous learning in programs like Bangkit Academy and professional internships, I aim to contribute to the tech industry with innovation and integrity.

WORK EXPERIENCE

Batam Print

October 2023 – December 2023

Web Developer Intern

- Assist in developing and maintaining responsive websites and web applications to meet client needs.
- Write clean front-end code using HTML, CSS, and JavaScript while supporting back-end development with PHP.
- Conduct testing and debugging to ensure optimal performance, usability, and cross-browser compatibility.
- Troubleshoot technical issues and stay updated on web development trends to improve functionality and efficiency.

PT. Vortex Energy Batam

September 2024 – January 2025

Machine Learning Engineer Intern

- Designed and implemented a computer vision system integrated with IoT-based cameras to detect and count production items in a manufacturing environment.
- Developed object detection models using TensorFlow and trained them to accurately classify and count products in real-time.
- Built a data pipeline for capturing image frames, processing them, and feeding them to the ML model for analysis.
- Deployed the solution on edge devices, ensuring low-latency inference suitable for real-time industrial use cases.

EDUCATION

Universitas Pancasila

September 2021 – February 2025

Teknik Informatika Strata 1 | 7th Semester *GPA 3.76/4.00*

- Learning Mobile Development, focusing on building efficient, user-friendly applications for Android and iOS platforms.
- Learning Web Development, with a focus on front-end and back-end technologies, including HTML, CSS, JavaScript, and databases.
- Learning Machine Learning, including supervised and unsupervised learning, model optimization, and practical applications in data analysis.

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

February 2024 – July 2024

- Learning core machine learning concepts, including supervised and unsupervised learning, model evaluation, and optimization techniques.
- Learning how to preprocess data and implement machine learning algorithms using Python and relevant libraries.
- Completing a capstone project focused on solving real-world problems by applying the learned machine learning techniques.

ORGANIZATION EXPERIENCE

Persatuan Perusahaan Periklanan Indonesia

December 2023 – now

Member

- Member of Persatuan Perusahaan Periklanan Indonesia (P3I), gaining insights into advertising trends and best practices.
- Learning about industry standards and ethical advertising practices.
- Engaging in discussions on innovative marketing strategies and regulations.

SKILLS

Languages: English (Fluent), Bahasa Indonesia

Soft skill: Python, Java, C++, PHP, HTML & CSS, Laravel 11, Tensorflow

CERTIFICATIONS

- Sequences, Time Series and Prediction (DeepLearning.AI)
- Browser-based Models with TensorFlow.js (DeepLearning.AI)
- Data Pipelines with TensorFlow Data Services (DeepLearning.AI)
- Custom Models, Layers, and Loss Functions with TensorFlow (DeepLearning.AI)
- Convolutional Neural Networks in TensorFlow (DeepLearning.AI)
- Natural Language Processing in TensorFlow (DeepLearning.AI)
- Device-based Models with TensorFlow Lite (DeepLearning.AI)
- Advanced Deployment Scenarios with TensorFlow (DeepLearning.AI)
- Structuring Machine Learning Projects (DeepLearning.AI)
- Custom and Distributed Training with TensorFlow (DeepLearning.AI)
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning (DeepLearning.AI)
- Probability & Statistics for Machine Learning & Data Science (DeepLearning.AI)
- Linear Algebra for Machine Learning and Data Science (DeepLearning.AI)
- Advanced Learning Algorithms (DeepLearning.AI, Stanford University)
- Supervised Machine Learning: Regression and Classification (DeepLearning.AI, Stanford University)
- Share Data Through the Art of Visualization (Google)
- Unsupervised Learning, Recommenders, Reinforcement Learning (DeepLearning.AI, Stanford University)
- Analyze Data to Answer Questions (Google)
- Calculus for Machine Learning and Data Science (DeepLearning.AI)
- Process Data from Dirty to Clean (Google)
- Introduction to Git and GitHub (Google)
- Using Python to Interact with the Operating System (Google)
- Crash Course on Python (Google)
- Ask Questions to Make Data-Driven Decisions (Google)
- Foundations: Data, Data, Everywhere (Google)
- Prepare Data for Exploration (Google)