

MUHAMMAD AKHSAN NURRAMDHAN

Machine Learning & Data Science Enthusiast

Sukabumi, Indonesia | akhsannurramdhan85@gmail.com | linkedin.com/in/akhsannurramdhan

PROFESSIONAL SUMMARY

Informatics Engineering graduate with experience in machine learning, computer vision, and web application development. Completed Bangkit Academy Machine Learning Path and developed AI-powered solutions using TensorFlow, YOLO, PHP, and CodeIgniter. Passionate about applying data-driven approaches and software engineering practices to solve real-world problems.

WORK EXPERIENCE

AI Data Evaluation & Annotation Projects

Appen Partner Project

April 2025 – Present

- Performed data annotation, quality evaluation, and validation tasks for AI-related projects
- Contributed to improving dataset quality and consistency for machine learning applications.
- Followed detailed guidelines to ensure high-quality annotation and review outcomes.

IT Support

Sukalarang Village Government Office

May 2020 – August 2021

- Provided technical support for hardware, software, printers, and network-related issues.
- Troubleshoot technical problems to ensure smooth daily operations and minimize downtime.
- Assisted staff in using digital systems and resolving IT-related issues.

Software Engineer Intern

PT Industri Telekomunikasi Indonesia

April 2019 – June 2019

- Developed and maintained backend functionalities using PHP and CodeIgniter.
- Integrated and managed MySQL databases to support application data processing and storage.
- Assisted in web application testing, deployment, and collaboration with development teams to ensure system reliability.

PROJECT

Packaging Quality Inspection Using YOLO

Computer Vision | Deep Learning | Thesis Project

- Developed a custom computer vision system using YOLOv10 to automate packaging quality inspections for ginger candy production, accurately classifying items into 3 industrial defect states: Marketable, Torn, and Dented.
- Built, curated, and annotated a balanced dataset of 930 high-resolution instances, ensuring zero data distortion and high visual fidelity for robust model training.
- Evaluated and optimized model performance, achieving an outstanding 99.5% mAP@0.5 and a 100% classification accuracy on testing data, delivering production-ready inference speeds for real-time quality control.

Digital Village Archive Information System

PHP | CodeIgniter 4 | MySQL

- Developed a web-based archive management system for village administration.
- Implemented document storage, search, classification, and retrieval functionalities.
- Improved efficiency of archive management and digital document access.

IoT Automatic Livestock Feeding System

Arduino | Python | ESP32 | Web Dashboard

- Engineered a smart, automated livestock feeding system utilizing an ESP32 microcontroller to regulate and automate feeding operations based on a configurable schedule.
- Developed a connected live web dashboard for real-time remote monitoring, control, and data logging, effectively reducing manual labor on the farm.
- Integrated hardware sensors for precise feed-level sensing, establishing an automated wireless notification pipeline to trigger low-supply alerts.

EDUCATION

Bachelor of Informatics Engineering

University of Muhammadiyah Sukabumi, Sukabumi, Jawa barat

Graduated: 2026

GPA : 3.60/4.00

TECHNICAL SKILLS

Machine Learning & Data Science

Machine Learning, Data Science, Computer Vision, Deep Learning, TensorFlow, Data Analysis, Data Visualization.

Programming

Python, PHP, JavaScript, SQL, Java.

Web Development

CodeIgniter 4, Next.js, HTML, CSS, Bootstrap, Tailwind CSS, REST API.

Cloud & Infrastructure

Virtual Machine (VM), Cloud Computing, Linux, Web Deployment, Server Configuration.

CERTIFICATIONS

Bangkit Academy 2023 – Machine Learning Path.

Google, GoTo, Traveloka.

Supervised Machine Learning: Regression and Classification.

DeepLearning.AI.

Browser-based Models with TensorFlow.js.

DeepLearning.AI.

Data Pipelines with TensorFlow Data Services.

DeepLearning.AI.

Probability & Statistics for Machine Learning and Data Science.

DeepLearning.AI.