

MUHAMMAD AL HAFIZ

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PROFESIONAL SUMMARY

Fresh Graduate with a Bachelor's degree in Informatics from Universitas Andalas (GPA 3.94/4.00), specializing in Computer Vision, Deep Learning, and Web-based Software Development. Experienced in developing machine learning models for object detection, building enterprise web applications using Laravel, and managing database systems through academic projects, undergraduate thesis research, and internship experience. Proficient in Python, PHP, SQL, and modern development frameworks. Passionate about leveraging AI and software engineering to solve real-world problems and optimize business processes. Currently seeking opportunities as a Software Developer, AI/Machine Learning Engineer, or Computer Vision Engineer.

EDUCATION

Andalas University – Padang, Indonesia | Bachelor of Informatics (2022–2026)

GPA: 3.94/4.00 (Cumlaude)

Undergraduate Thesis: “Detection of Leaf Diseases in Porang Plants (*Amorphophallus Muelleri*) Using the YOLOv8 Model Based on Deep Learning

TECHNICAL SKILLS

- **Programming Languages:** Python (Deep Learning, Computer Vision), PHP (Laravel), SQL (Database Management), and HTML/CSS/JavaScript
- **Web Development:** Laravel, Tailwind CSS, Bootstrap
- **Data Science & AI:** Object Detection, Deep Learning, Computer Vision, Model Evaluation, and Hyperparameter Tuning
- **Frameworks & Libraries:** Ultralytics YOLOv8, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy.
- **Software & Tools:** Git, GitHub, MySQL, Jupyter Notebook, Microsoft Office, Microsoft Excel, Figma, Canva, and Google Workspace

PROFESSIONAL EXPERIENCE

PT Dipo Star Finance – Indonesia | IT Development Center Intern (July 14 – September 12)

- Developed a web-based Key Performance Indicator (KPI) application using Laravel to support employee performance monitoring and evaluation within the department.
- Collaborated with the supervisor and internal department to gather system requirements and translate business needs into functional application features.
- Designed and implemented the application's database structure, user interface, and core CRUD functionalities using web development technologies.

PROJECTS

Detection of Leaf Diseases in Porang Plants Using YOLOv8 | Undergraduate Thesis (2025–2026)

- Developed an advanced object detection model using YOLOv8 to accurately detect and localize leaf diseases in porang (*Amorphophallus muelleri*) plants from complex image datasets.
- Implemented image preprocessing, data augmentation, and model training pipelines using Python, OpenCV, and Ultralytics YOLOv8.
- Conducted rigorous model evaluation to measure detection accuracy and performance metrics.

Dentist App | Mobile AI Project

- Developed an Android-based mobile application designed to assist users in detecting dental and oral diseases through image capture.
- Integrated an AI-based computer vision model to analyze dental images and provide automated preliminary disease classification.
- Built using Java (Android Development) and integrated with machine learning libraries for on-device or cloud-based inference.

Official Website of Nagari Sungayang | Community Service Program (KKN)

- Developed an official village information website to improve public access to information, administration services, and digital governance for the local community.
- Designed and implemented a responsive web interface along with integrated database functionalities for content management.
- Technologies: PHP (Laravel), MySQL, HTML, CSS, JavaScript.

Interactive Indonesian Education Map (Spatial-Temporal Data Visualization) | Data Visualization Project

- Developed an interactive spatial-temporal dashboard mapping educational data across regions in Indonesia to analyze distribution patterns and educational metrics over time.
- Performed data preprocessing, cleaning, and spatial-temporal data integration to process geographic boundaries and statistical education datasets.
- Built interactive geospatial visualizations and dynamic maps to effectively communicate regional disparities and educational development trends.
- Technologies: Python, Pandas, Geospatial Mapping Libraries, Git.

ORGANIZATION EXPERIENCE

HMIF 2023 Andalas University | Human Resources Development Member (June 2023 – August 2024)

- Coordinated the Study Club program to support academic development and skill-sharing among members.
- Managed the execution of InformatiCup by collaborating closely with committee members to ensure successful event implementation.

Certifications and Training

Database Programming with SQL – Oracle Academy (July 2023)

Database Design – Oracle Academy (April 2023)

Kelas Fullstack – CodePolitan