MUHAMMAD LUTFI AMIN GHIFARULLAH

Bandung, West Java, 40164, +62 81222024097, ghifarullah11@gmail.com

PROFESSIONAL SUMMARY

AI Engineer with expertise in Machine Learning, Deep Learning, and Data Science. Experienced in developing and deploying Computer Vision (CNN, YOLOv11), NLP (DistilBERT, Gemini), and LLM-based applications. Skilled in end-to-end AI project implementation, cloud deployment (IBM Cloud, GCP, Azure), and model evaluation. Recognized for leadership as Head of Machine Learning at Google Developer Groups, with a strong track record in mentoring and delivering applied AI solutions.

EDUCATION

Pasundan University
Informatics Engineer, Bachelor Engineering; GPA 3.83/4.00 | **September 2021 – July 2025**

- Developed a final project (Thesis) on Artificial Intelligence: Computer Vision with the title "Cat Skin Disease Detection Using You Only Look Once Version 11 (YOLOv11)."
- Served as an Assistant Lecturer for "Machine Learning" courses.
- Head of Machine Learning at Google Developer Groups on Campus UNPAS, responsible for Machine Learning learning path.

SKILLS AND EXPERTISE

- **Programming**: Python, Java, SQL
- **Frameworks & Libraries**: TensorFlow, Scikit-learn, LangChain
- **AI & ML Domains**: Computer Vision (YOLO, CNN), Natural Language Processing (DistilBERT, GPT, Gemini, RAG), Time Series
- **Cloud & Deployment**: IBM Cloud, Google Cloud Platform (GCP), Docker, Roboflow, Flask, FastAPI
- **Data Analysis & Visualization**: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Streamlit
- **Tools & Collaboration**: Git, GitHub, Jupyter Notebook, Google Colab

EXPERIENCE

Pasundan University
Machine Learning Assistant | **May 2025 – July 2025**

- Mentored 30+ students in Machine Learning projects (regression, classification, clustering). Designed and delivered a hands-on ML module adopted by 3 university classes.

Google Developer Groups on Campus UNPAS
Head of Machine Learning | **September 2024 – August 2025**

- Led ML projects and organized AI workshops for students. Built an Animal Classification CNN model with hyperparameter tuning and developed an AI-powered chatbot using DistilBERT, improving response accuracy by ~20%.

Infinite Learning - IBM Advanced AI Academy (Kampus Merdeka's Independent Study Batch 6)
Machine Learning Engineer | **February 2024 – July 2024**

- Collaborated in a team to develop the "Botanify" plant classification system, implementing the full AI development lifecycle from model training to deployment. Designed and trained an image classification model using VGG16, achieving 98% accuracy across 29 plant species. Led deployment on IBM Cloud with integration into web and mobile applications, ensuring usability and scalability.

PROJECTS

Cat Skin Disease Detection Using You Only Look Once Version 11 (YOLOv11) | October 2024 – July 2025

- Developed and trained a YOLOv11 model to detect 6 cat skin diseases, achieving mAP of 0.858/1.000. Deployed via Roboflow and integrated into a static website, demonstrating practical Computer Vision deployment in real-world applications.

Laba-Laba Sunda Project | May 2025 – June 2025

- Developed and integrated an AI chatbot leveraging Gemini into a simple web page to interact with users in the Sundanese language.

PintarAI – Virtual AI Tutor | May 2025 – June 2025

- Developed a virtual AI tutor prototype to assist high school students in rural areas, leveraging Google Gemini and Flask.

Final Project: Solving an Edutech Company's Problem | June 2024 – July 2024

- Developed a predictive model to identify at-risk students and prevent dropout, performing data cleaning and analysis. Utilized Python libraries like pandas and scikit-learn, and the Streamlit framework for the web application.

Credit Scoring App | June 2024 – July 2024

- Built a model and web application to predict credit scores (Good, Standard, Poor), handling missing and anomalous data. Used Streamlit for the user interface and evaluated the model with metrics such as accuracy, precision, recall, and F1-score.

CERTIFICATIONS AND COURSES

- Infinite Learning IBM Academy – Advanced AI *(2024)*
- Dicoding Machine Learning Engineer & Data Scientist *(2024)*

ADDITIONAL INFORMATION

- **Languages**: English (Limited Working Proficiency), Indonesian (Native)
- **Availability**: Open to internships and full-time opportunities in Data Science & AI
- **Portfolio**: https://github.com/ghifarullah19, https://www.kaggle.com/ghifarullah19