

HAFIDH BINTANG RAMADHAN

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EXECUTIVE SUMMARY

A highly motivated Information Technology student from President University specializing in Artificial Intelligence (AI). I have developed expertise in Python, Machine Learning (ML), Natural Language Processing (NLP), and Computer Vision (CV) through a combination of rigorous academic coursework and self-driven, hands-on projects. I am eager to contribute to a full project lifecycle, including AI research and development, model design, and data analysis, to build innovative solutions for real-world challenges.

EDUCATION

Bachelor's Degree in Computer Science, President University

2023 - Present

- GPA: 3.67 / 4.00
- Awardee of the Jababeka Scholarship Program (75%)
- Relevant Coursework: Computer Vision (CV), Machine Learning (ML), Natural Language Processing (NLP), Image Processing & Recognition, Intelligent Robotics, Linear Algebra, Object Oriented Programming, Statistic
- Activities: Vice of Human Resources Department at Mahasiswa Penggerak President University, Director and Editor of Precicinema, and Project Manager of Peekroom

PROJECTS & PORTFOLIOS

Group Attendance System for PT Mattel, Developer

Mar – May 2025

- Successfully developed and delivered a production-level automated group attendance system for company client PT Mattel, solving a key operational challenge by replacing manual tracking processes.
- Achieved 80% accuracy as the core of an automated group attendance system for client PT Mattel by optimizing and engineering a real-time face recognition model using MTCNN (detection) and Facenet (recognition).
- Optimized the inference pipeline for high-speed performance, enabling real-time detection for multiple individuals with low latency.
- Developed a reliable full-stack monitoring solution, including a user-friendly GUI and streamlined database workflow, validated through rigorous analysis and collaborative testing.

Medical Chatbot – HealerAI, Developer

Feb 2025

- Achieved 89% accuracy in query intent classification by developing and fine-tuning a conversational AI core built upon the BART Transformer model.
- Spearheaded the complete Research and Development (R&D) lifecycle for "HealerAI," a medical chatbot platform, from initial conception and data preparation to final model deployment.
- Crafted a fluid and user-centric interface using Tailwind CSS, supported by a lightweight Flask backend, to create a seamless experience for users interacting with the conversational AI.

Tumor Detection, Developer

Nov 2024

- Achieved 85% validation accuracy by architecting and training a Convolutional Neural Network (CNN) in Tensorflow and Keras to classify brain tumors from MRI images.
- Implemented a comprehensive data preprocessing pipeline using Pillow and NumPy to load, resize (224x224), and normalize image data to ensure consistency for model training.
- Analyzed model performance across 10 epochs by compiling with an Adam optimizer, using binary cross-entropy loss, and visualizing training vs. validation curves with Matplotlib to mitigate overfitting.

SKILLS, LANGUAGES, & CERTIFICATES

Hard Skills: Python, Machine Learning (ML), Computer Vision (CV), Natural Language Processing (NLP), Image Processing, Web Development, SQL

Soft Skills: Continuous Learning, Problem Solving, Articulating Technical, Communication, Team Collaboration

Tools & Technologies: Pytorch, Tensorflow, Scikit-learn, Keras, Transformers, OpenCV, Flask, React, Javascript, Typescript, Tailwindcss, Visual Studio Code, Google Colab, Kaggle, Git/GitHub, Laragon

Languages: Indonesian (Native or Bilingual), English (Limited Working)

Certificates: Mastering AI on AWS (Udemy), AI Engineer Professional Certificate Course (Udemy), Complete Python Bootcamp (Udemy)