

# Sulthan Dhafir Rafief

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Cikarang, Indonesia

## PROFILE

An active Information Technology student at President University with a strong interest in data analysis, data science, and artificial intelligence. Skilled in Python, TensorFlow, and scikit-learn, with strong capabilities in developing machine learning models, deep learning architectures, and end-to-end data pipelines. Leadership experience as Minister of Student Activity at President University Student Board, where I sharpened my ability to lead teams, solve problems efficiently, and manage multiple priorities under pressure.

## EDUCATION

**President University** | Bachelor of Information Technology Cikarang, Indonesia | 2023 – Present

- Cumulative **GPA:** 3.97/4.00
- Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Deep Learning, Database Systems, Computer Vision, Artificial Intelligence, Software Engineering, Web Programming, Statistics for Data Science

## PROJECTS EXPERIENCE

**Plastic Bottle Defect Detection** 2025  
*Client Project – Solos, Qatar*

- Developed a plastic bottle defect detection system using YOLOv5 on real-world industrial data.
- Applied image preprocessing and advanced augmentation techniques using Albumentations.
- Achieved high detection accuracy and real-time performance for automated production use

**Sign to Speech AI** 2025  
*Personal Project*

- Developed a real-time sign detection system using YOLOv11n and OpenCV, with voice output generated using gTTS.
- Deployed locally with a Python GUI as a prototype for testing and validation.

**Vehicle Classification** 2025  
*Course Project*

- Developed an image classification model to recognize different vehicle types using CNN.
- Processed and augmented the dataset, trained the model with TensorFlow, and evaluated performance using accuracy and confusion matrix.
- Deployed the model to Hugging Face Spaces using Gradio for real-time user interaction.

## ORGANIZATION EXPERIENCE

**Minister of Student Activity – President University Student Board (BEM Universitas)** October 2024 - Present

- Supervised 7 student events by managing schedules, monitoring execution, and ensuring timely reporting.

**Project Manager – Student Awarding Night 2024** November 2024

- Led a campus-scale event of 200+ people, managing timeline alignment, team coordination, and final decision-making to ensure successful execution.

**Vice Project Manager – Grant of Hopes 2024** April 2024

- Assisted in leading event planning, division coordination, and external negotiations, contributing to successful fundraising beyond target and smooth team execution.

## SKILLS

- Hard Skills:** Python, Scikit-learn, TensorFlow, Keras, Data Preprocessing, Model Evaluation, Deep Learning, Computer Vision
- Tools:** Jupyter Notebook, Google Colab, OpenCV, TensorFlow, Gradio, Hugging Face Spaces, gTTS, Albumentations
- Soft Skills:** Attention to Detail, Problem Solving, Teamwork, Time Management, Leadership
- Languages:** Indonesian, English