

Andreas Immanuel Lukito

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🌐 <https://github.com/Andreas-Lukito> 📍 Jakarta, West Jakarta

📁 Professional Experience

Research Assistant, *Gregorius Natanael Elwirehardja* ✍ 12/2024 – Present

- Performed feature extraction and engineering from video data to identify facial expressions associated with depression symptoms.
- Developed and trained Artificial Neural Network (ANN) models for classifying patients' likelihood of depression.

📁 Projects

Obesity Levels Classification ✍

- Built and deployed an obesity classification app (Streamlit + Docker), achieving **94% accuracy** with Random Forest and **82%** with a tuned Neural Network optimized via Optuna.
- Improved hyperparameter tuning efficiency by replacing GridSearch with Optuna for the Neural Network model, cutting experimentation time while maintaining strong performance.

Air Quality Forecasting ✍

- Developed an LSTM-based time-series model to predict air quality one hour ahead, achieving a **95% R² score** by fine-tuning hyperparameters with Optuna.

Price Adjustment Model ✍

- Built a machine learning model to automate price adjustments using features such as production cost, stock, demand rate, competitor pricing, and profit margin.
- Designed and generated a synthetic dataset to simulate real-world conditions.
- Achieved **99% R² score**, with hyperparameters optimized via GridSearchCV.

🏆 Awards

Third Place for Data Visualization, *Binus Data Science Club* ✍ 17/12/2023
Made a dashboard using power BI

📄 Certificates

- Microsoft Certified Azure AI Fundamentals ✍
- NVIDIA: Fundamentals of Deep Learning ✍

📖 Courses

Foundations: Data, Data, Everywhere, *Google* ✍ 03/2024

Ask Questions to Make Data-Driven Decisions, *Google* ✍ 04/2024

Data Analysis with R Programming, *Google* ✍ 05/2024

Process Data from Dirty to Clean, *Google* ✍ 08/2024

Tools, Devices & Skills

Python

PyTorch

TensorFlow

VS Code

Jupyter Notebook

R

RStudio

AWS

Azure

- Azure Machine Learning
- Azure AI Custom Vision
- Azure AI Language
- Azure AI Document Intelligence
- Azure AI Translator
- Azure Bot Service

- S3

- EC2

- ELB

- VPC

- CloudFront

- Shield

- SageMaker

Arduino IDE

Linux Mint

Mosquito MQTT Broker

ESP32 with Temperature Sensor for IOT

Cisco Packet Tracer

Network Devices

Project & Collaboration

- Trello
- Microsoft Teams Planner

- WiFi-Router

- WiFi-Access Point

- FWA CPE

- Switch

Raspberry Pi

Education

Data Science, BINUS University 

2023 – Present

Relevant Coursework:

Jakarta, Indonesia

- Machine Learning
- Deep Learning
- Text mining
- Data Mining and Visualization

Organisations

Data Science Club, Member

2023 – Present

B-Preneur, Member

2023 – Present