

HABIB HAMMAM KURNIAWAN

Surabaya, Indonesia

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OBJECTIVE

Fresh graduate with strong foundation in Artificial Intelligence, Machine Learning, and Data Science, with hands-on experience in deep learning, computer vision, and time-series forecasting. Experienced in developing AI models such as RGB-to-NDVI image conversion using CycleGAN and battery internal resistance forecasting. Eager to contribute to innovative AI/ML projects with real-world impact.

EDUCATION

Politeknik Elektronika Negeri Surabaya (GPA 3.65) Surabaya, IND
Bachelor Degree of Telecommunication Engineering 2021-2025
Thesis titled “*Implemented secure V2I communication using Secret Key Generation based on LoRa technology.*”

CERTIFICATION & COURSES

- CompTIA Security+ (2020 – 2023)
- BNSP - Jaringan Akses & Coverage (valid until 2027)
- Google Cloud Security Badges (2024)
Including : Build a Secure Cloud Network, Infrastructure Security with Google Cloud

WORK EXPERIENCE

Bangkit Academy by Google, GoTo (MSIB) Surabaya, IND
Cloud Computing (Backend, DevOps, Cloud Architecture) Aug – Dec 24

- Gained hands-on experience in Google Cloud Platform (GCP), covering Compute Engine, Cloud Storage, Cloud Functions, and IAM.
- Designed and deployed secure, scalable cloud architectures using best practices in security and cost optimization.
- Implemented firewall rules, VPC segmentation, and IAM configurations as part of secure cloud deployment
- Practiced incident detection & alert handling simulation as part of cloud security training
- Familiar with containerization and cloud networking concepts (Docker, Kubernetes - basic)

Terra AI Remote, SG
AI Engineer Internship Aug 23-Jan 24

- Learning the programming language named SMOJO
- Developing the AI Model to various application
- The Project was to make an AI which can summarize the youtube video.

VOLUNTEER AND ORGANIZATION

Research Asistant Surabaya, IND
Group Research Mobile Communication and Security May 20-June 23

- Worked on the concept of developing early warning system of rice pest disease attack to support national food security and collab with University Teknologi Mara (MY).
- Participants in 5D world map concept with Musashino University (JP).

Head of Human Resource Surabaya, IND
Student association of Telecommunication Engineering Jan24-Dec25

- Leading 100 student to organize the election of student association
- Responsible for student development programs, organizing training and mentoring sessions.

PROJECT

RGB to NDVI Conversion using CycleGAN

Surabaya, IND

Developed a deep learning model based on CycleGAN architecture to convert RGB drone imagery into NDVI for agricultural monitoring, improving vegetation health analysis without NIR sensors.

Battery Internal Resistance Forecasting

Surabaya, IND

Implemented time-series forecasting models (LSTM and ARIMA) to predict internal resistance degradation trends in batteries, aiding preventive maintenance strategies.

SKILL AND TRAINING

Language	: Indonesia (native), English (Intermediate).
Technical	: <ul style="list-style-type: none"> • AI/ML Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn • Computer Vision: OpenCV, CycleGAN, image preprocessing • Data Science: Pandas, NumPy, Matplotlib, Seaborn • Time Series Analysis: LSTM, ARIMA, Prophet
Soft Skill	: Communication skills, Problem-Solving, Team Collaboration