



# Vanny Minanda

DATA SCIENTIST | BANGKOK

## SKILLS

- Microsoft Azure
- Machine Learning & AI (ETL Pipelines, Scikit-learn, PyTorch, Keras), NLP
- Big Data Analysis (Pandas, Polars, PySpark)
- Database Management (SQL, BigQuery, PostgreSQL, MongoDB)
- Data Visualization (Tableau, Power BI)
- Version Control System (Git, Github, Github Copilot)
- Metaheuristic Algorithms for optimization
- Automation Tools (n8n, Langflow)
- LLM Integration Pipelines & Prompt Engineering

## LANGUAGES

English      Bahasa Indonesia      Chinese

## EDUCATION

### ABOUT ME

I hold a PhD focused on algorithm optimization, data analysis, and programming. I specialize in AI, data science, and Microsoft Azure, with hands-on experience in data sourcing, database management, and algorithm tuning.

### 2019 – 2024

Doctoral in Industrial Engineering  
Yuan Ze University, Taiwan

### 2017 – 2019

Master in Industrial Engineering  
Yuan Ze University, Taiwan

## EXPERIENCE

### 2025 | Post-doctoral research fellow

Optimizing Medical Staff Scheduling and Routing for Homecare in Taiwan

### 2022 – 2024 | Government-funded project

Built an IoT-based monitoring system for hospital waste with real-time tracking, route optimization and web dashboard integration.

### 2022 – 2024 | Government-funded project

Developed an automated system for optimizing hospital waste collection routes in real-time

### 2021 – 2022 | Academic-Industry Project

Developed an AI-driven Python application to forecast demand for apparel suppliers using real historical data from an Adidas supplier in Taiwan, accounting for COVID-19-related supply chain fluctuations.

## CONTACT



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[https://vannyminanda888.github.io/my\\_webpage/](https://vannyminanda888.github.io/my_webpage/)



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