

Wachirawit Piyaprapapan

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Education

- Chulalongkorn University**, B.Eng. in Electrical Engineering – Bangkok, Thailand Aug 2022 – May 2026
- GPAX: 3.46 (Second-class honours)
 - Coursework: Data Science, Data Engineering, Optimization, Statistical Learning
 - Capstone: Generative Video-Based Sky Image Forecasting with Thai Atmospheric Data

Skills

Languages: Python, SQL, Bash

ML / Data: PyTorch, Pandas, Scikit-learn, Spark, Airflow

Tools: NumPy, Docker, Git, OpenCV, Grafana, Gradio, FastAPI, Supabase

Experience

- AI Engineer Intern**, Hobbit Technologies – Bangkok, Thailand June 2025 – Aug 2025
- Built an internal computer vision annotation platform, reducing data labeling cost around 20k Baht and tailored-made for internal YOLO model iteration for automation prototypes (Python, OpenCV, YOLO, Docker)
 - Implemented logging and monitoring pipelines, with daily system report and improving system reliability and observability in ML workflows (Python, Grafana, Docker)

- Electrical Engineering Intern**, AGC Flat Glass – Bangkok, Thailand June 2024 – Aug 2024
- Analyzed production data and translated insights into PLC control logic to improve operational efficiency ~10%.

Projects

On-Demand Delivery Data Platform & Decision Intelligence System

- Designed and built a production-style data engineering pipeline with mocked datasets, supporting daily ingestion, ETL processing, and loading into a data warehouse (Airflow, Docker, Pandas)
- Performed EDA and business analytics on food order data, generating insights to support profit optimization and data-driven operational decisions (Ongoing)

End-To-End Football Player Value Forecasting & Similarity Recommendation System

- Developed dual ML pipelines 1) Time-series regression to predict football players' market values 2) unsupervised clustering to group players by performance style and role similarity.
- Scrapped and engineered features to find insights from player performance and transfer data for exploratory data analysis.
- Performed data analysis and visualization to identify key trends, patterns, and drivers influencing player performance and market value.

Competitions

I-squared Hackathon - Motorbike-Rider Anomaly Detection and Classification

- Built a two-stage vision pipeline, YOLOv8 for human-motorbike detection → ViT for fine-grained classification.
- Built data-cleaning pipelines using a YOLOv8 detection model for automated correction and data enhancement.
- Reached semifinals with +90% accuracy on train images and +70% unseen real-world images.