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, Estimation, Statistical Learning, Optimization
- Capstone: Generative Video-Based Sky Image Forecasting For Thai Sky Images

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 (Ongoing)

- 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

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.
- Scraped 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 Annomally Detection and Classfication

- 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.