# Wachirawit Piyaprapapan

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## Education

**Chulalongkorn University**, B.Eng. in Electrical Engineering – Bangkok, Thailand Aug 2022 – May 2026

- GPAX: 3.44 (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**

- Built an end-to-end data science system for delivery delay prediction, covering ingestion, feature engineering, time-aware model training, and monitoring (Python, SQL, dbt, Airflow, PostgreSQL, Docker).
- Trained interpretable classification models with proper time-series validation; identified key delay drivers and translated insights into operational levers for ETA accuracy and SLA improvement.

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

- Developed dual ML pipelines, time-series regression to forecast player market values and unsupervised clustering to group players by performance style and role similarity.
- Engineered features from scraped performance and transfer data; evaluated models using Log1p RMSE and Silhouette Score to balance predictive accuracy, interpretability, and business risk.
- Translated model outputs into decision-support insights, enabling player valuation benchmarking, team-personalized strategy recommendation, and risk-aware transfer shortlisting.

**Football Analytics Content Platform (Ongoing)**

- Built a data analytics pipeline on match, player, and event-level data to engineer performance metrics and extract tactical insights (Python, Pandas, SQL).
- Conducted EDA and statistical analysis to find insights and delivered insights through data-driven visualizations and narratives for non-technical fans.

## Competitions

**I-squared Hackathon - Motorbike Rider Anomaly Detection & Classification**

- Built a two-stage computer vision pipeline (YOLOv8 for motorbike detection → ViT for fine-grained classification).
- Designed automated data-cleaning and enhancement pipelines; reached semifinals with >90% accuracy on training data and >70% on unseen real-world images.