

# Wachirawit Piyaprapapan

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## Education

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- 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

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**Languages:** Python, SQL, Bash

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

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

## Experience

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- 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

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### On-Demand Delivery Data Platform & Decision Intelligence System (Ongoing)

- Designed an end-to-end data science system to predict delivery delays and support operational decisions, covering data ingestion, feature engineering, model training, and monitoring (Python, SQL, dbt, Airflow, PostgreSQL, Docker)
- Built time-aware ML pipelines for delay prediction using engineered temporal, spatial, and rider-performance features; applied proper time-series validation to avoid data leakage
- Developed interpretable classification models and feature analyses to identify key delay drivers (distance, zone mismatch, peak hours, rider workload), translating insights into concrete levers for ETA accuracy, rider assignment, and SLA improvement

### 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.
  - Evaluated models using Log1p RMSE, Silhouette to ensure explainability and alignment with business risk trade-offs and further business plan takeaways.

## Competitions

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### 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.