

None Wanitchollakit

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I am a Thai Master's student in Advanced Computing at Tsinghua University (CSC Full Scholarship).

Research Interests: Long-horizon robotic manipulation, brain-inspired AI, embodied AI, neuro-symbolic reasoning

Education

Tsinghua University, China 2026 – Present
Master in Advanced Computing (CSC Full Scholarship)
Chulalongkorn University, Thailand Aug 2020 – Aug 2024
Bachelor of Engineering in Computer Engineering
GPA: 3.72/4.00 (*First-Class Honors*)
Relevant Coursework: Neural Networks; Pattern Recognition; Data Mining; Time Series Mining and Knowledge Discovery; Cloud Computing Technology; Algorithm Design; Database Systems; Software Engineering

Research Experience

Research Assistant, National Crime Prediction Center Part-time, Jun 2024 – Oct 2024
under Prof. Boonserm Kijssirikul and Asst. Prof. Sukree Sinthupinyo

- Developed XGBoost models to predict crime counts per subdistrict, improving model accuracy by reducing RMSE.
- Applied association rule mining to extract significant crime patterns from large datasets.
- Performed clustering to group provinces with similar crime characteristics.

Research Assistant, ECG Analysis Project Part-time, Nov 2024 – Aug 2026
under Asst. Prof. Akarapon Watcharapalakorn

- Converted ECG waveform images into time series signals using DBSCAN-based line extraction.
- Applied normalization techniques to prepare the signals for downstream analysis.
- Supporting prediction tasks including age and sex classification from ECG data, leveraging a large-scale pre-trained model.

Publications

“Cost-Efficient Sequential Predictions with a Hybrid Method of Topological Sorting and Boosting: A Case Study on LDPE-Property Prediction” ECTI-CIT 2025
Noparat Phongthakun, Akarapon Watcharapalakorn, **None Wanitchollakit**, Borworntat Dendumrongkul, Pana Wanitchollakit, Chayanin Kongsareekul, Sunisa Rimcharoen, Nutthanon Leelathakul
DOI: 10.37936/ecti-cit.2025192.260242
Contribution: designed the topological-sort-based graph pruning algorithm for sequential prediction.

Teaching Experience

- **Guest Lecturer** – Computer Olympiad Preparation (Camp 1), Rayongwittayakom School (Jul 2026, Aug 2026): alongside Asst. Prof. Akarapon Watcharapalakorn and Chayanin Kongsareekul; covered essential mathematics, basic Python programming, and basic algorithms for solving pseudocode problems with high-school students.
- **Volunteer Tutor** – Computer Olympiad Qualification (Camp 1), Online (Jul 2026 – Aug 2026): alongside Sean Wanitchollakit (IOI silver medalist); provided structured problem sets and mentoring for high-school students. Resources & Tests
- **Guest Lecturer** – Computer Olympiad Preparation (Camp 1), Rayongwittayakom School (Aug 2025): alongside Pana Wanitchollakit; taught essential mathematics, basic Python programming, and basic algorithms for solving pseudocode problems.
- **Organizer** – AI & Machine Learning Workshop and Lecture, Rayongwittayakom School (Jun 2025): organized and led an introductory AI/ML workshop for middle-school students, covering fundamental concepts and hands-on exercises.

Projects

Generative AI Hackathon Projects

2024

- Built a JayMart product recommender kiosk assistant (depa GrowthLab GenAI Hackathon Powered by AWS) using Amazon Bedrock, integrating RAG to fetch real product data from JayMart's inventory.
- Created a Subway ordering recommender chatbot using Amazon Bedrock's Generative AI services and LangChain to maintain context and memory for efficient LLM responses.

Customer Loan Repayment Prediction – AIHack Thailand 2023, Chulalongkorn University

- Developed a machine learning model to predict whether customers would repay their loans on time using demographic and financial data.

Car Appraisal with AI

Project Leader

under Asst. Prof. Sukree Sinthupinyo

- Led the development of a web application to classify Mazda car models using PyTorch (89.5% accuracy).
- Built a random forest model to predict second-hand car prices, achieving MAPE of 8.3%.
- Designed interactive dashboards to visualize appraisal data and market trends.

Work Experience

Data Preparation Staff, TISCO Financial Group PCL

Jul 2024 – Jun 2025

- Implemented Neural Matrix Factorization with PyTorch for stock recommendations (90% hit rate).
- Applied Generative AI (Gemini API) to match car models across appraisal systems (40%–64% accuracy).

Data Analyst Intern, TISCO Financial Group PCL

Jun 2023 – Aug 2023

- Developed XGBoost models predicting car loan and auto cash installment payments with 98% accuracy.
- Applied time series k-means clustering to segment contracts by payment behavior.

Certificates & Awards

- **Full Scholarship** – Chinese Scholarship Council (CSC), Tsinghua University (2026)
- **IELTS Academic** – Overall Band 7.0
- Silver Medal – 15th Thailand Olympiad in Informatics (2019)

Skills

Programming Languages: Python, SQL, C/C++

Libraries & Frameworks: scikit-learn, Pandas, PyTorch, XGBoost, LightGBM, CatBoost, Matplotlib, LangChain, Streamlit

Tools & Platforms: AWS, Tableau, Selenium, Power Automate, SharePoint, Microsoft Access, Docker

Techniques: Machine Learning, Computer Vision, Data Preprocessing, Feature Engineering, Model Evaluation, Clustering, Time Series Analysis, Generative AI, RAG (Retrieval-Augmented Generation), Web Scraping, Recommender Systems

GitHub: github.com/nonewanit