




Pupipat Singkhorn

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EDUCATION

Chulalongkorn University 2022 - Present

Bachelor of Engineering - Computer Engineering Major.

Relevant Coursework: Pattern Recognition, Algorithm Design, Data Structures, Programming Methodology

Triam Udom Suksa School 2019 - 2022

Science-Mathematics Major. GPAX: 3.85

- *Thailand Physics Olympiad (TPhO)* - 19th TPhO: Bronze Medal, 18th TPhO: Participated
- *Triam Udom Photo Club (Staff and Member)* - Captured photos at various school events.

WORK EXPERIENCE

Data Scientist Intern - Kiatnakin Phatra Bank June 2024 - July 2024

- *Used Car Price Forecasting*
 - Developed an ensemble machine learning model to predict used car prices, aiding informed automotive loan decisions.
 - Conducted comprehensive data collection and cleaning, integrating car-specific, macro-, and micro-economic factors.
 - Utilized time-series cluster analysis and Bayesian optimization techniques.
- *Loss On Sale Forecasting*
 - Created a model to predict loss on sale for Non-Performing Loans (NPLs), reducing uncertainty in credit cost estimation.
 - Utilized credit score, personal data, and credit risk factors to improve model accuracy.
 - Applied coarse classing, binning-, and memory-optimization techniques to enhance model performance and efficiency.

Tutor - Teach Physics & Mathematics 2022 - Present

Provided lessons for Physics Olympiad camp, university admissions, and high school preparation.

Photographer - Portfolio:  instagram.com/pupick.sk 2019 - Present

Captured photos at events and private photo sessions.

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENT

Aihack Thailand 2023 - Ai Hackathon December 2023

- Created a credit risk model using a machine learning approach to forecast individuals who are likely to default.
- Performed data analysis, data pre-processing, and feature engineering using linear and tree-based models.
- Awarded 1st Prize Winner & AUC Prize Winner.

Stock Return Forecasting with Portfolio Optimization Project April-May 2024

Pattern Recognition 2024 Class Final Project

- Developed an Alpha Factor Model for stock return forecasting using Classical ML and LSTM networks.
- Designed and backtested quantitative trading strategies.
- Implemented Portfolio Optimization techniques within trading strategies.

Participated in Business Case Competition 2023

- *Hult Prize at Chulalongkorn* - Developed a social enterprise Idea aligned with the UN SDGs.
- *Chulalongkorn Case Discovery x Ascend Money* - Formulated a strategy for financial services application.

Certifications

- *Machine Learning Specialization* - Issued by: DeepLearning.AI, Stanford University August 2024
- *Google Data Analytics Professional* - Issued by: Google July 2023
- *Financial Engineering and Artificial Intelligence in Python* - Issued by: Udemy August 2024

MISCELLANEOUS

Technical Skills

Programming Language: Python, SQL, C++, C, HTML, CSS, LaTeX, Markdown

Programming Libraries: PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Plotly

Applications: Excel, Power BI, Tableau, Git, GitHub

Language: Thai (Native), English

Interests: Business, Economics, Politics, Books, History, Philosophy