

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, Database Systems

Triam Udom Suksa School 2019 - 2022

Science-Mathematics Major. GPA: 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.
 - Collected and cleaned real-world business data, incorporating macro- and micro-economic factors.
 - Utilized time-series analysis and Bayesian optimization techniques.
- *Loss On Sale Forecasting for NPLs*
 - Built predictive models to estimate losses on Non-Performing Loans, improving the bank's credit risk management.
 - Enhanced model performance through feature engineering, including coarse classing, binning, and memory-optimization.

Freelance

- *Physics & Mathematics Tutor* - Provided tutoring for Physics Olympiad camp, university admissions.
- *Photographer* - Portfolio: [instagram.com/pupick.sk](https://www.instagram.com/pupick.sk) - Photographed various events and private sessions.

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENT

Aihack Thailand 2023 - AI Hackathon | 1st Prize Winner & AUC Prize December 2023

- Created a credit risk model using a machine learning approach to forecast credit default risk.
- Performed data analysis, preprocessing, and feature engineering with linear and tree-based models.

Stock Return Forecasting with Portfolio Optimization Project April - May 2024

- Developed an Alpha Factor Model for stock return forecasting using Classical ML and LSTM networks.
- Designed and backtested trading strategies integrating portfolio optimization.

Machine Learning for Fundraising Campaigns - SAS xCBS Hackathon Season 4 | 4th Place October 2024

- Created a targeted marketing model to improve donor outreach through a 2-stage ensemble model, achieving precise donor predictions and effective cost management.

Investment Portfolio Analytics Dashboard Web App November 2024

- Developed an OCR/LLM-powered system to extract and organize investment data, integrating market data.
- Built and deployed a dashboard to calculate performance metrics e.g., ROI, Sharpe Ratio, Volatility, CVaR.

Participation in Business Case Competitions 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

- *Financial Engineering and Risk Management* - Columbia University November 2024
- *Machine Learning Specialization* - DeepLearning.AI & Stanford University August 2024
- *Google Data Analytics Professional* - Google July 2023

MISCELLANEOUS

Technical Skills

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

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

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

Languages: Thai (Native), English

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