

# 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. 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 from a real-world business dataset, integrating 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.

### Freelance

- *Physics & Mathematics Tutor* - Provided lessons for Physics Olympiad camp, university admissions preparation.
- *Photographer* - Portfolio: [instagram.com/pupick.sk](https://www.instagram.com/pupick.sk) - 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

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

### SAS xCBS Hackathon Season 4

October 2024

- Applied predictive modeling to optimize donor outreach in a direct-contact fundraising campaign.
- Built a 2-stage ensemble model with a pipeline for precise predictions and improved targeting.
- Achieved 4th place by strategically balancing donation forecasts with contact costs.

### 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, Plotly

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

**Language:** Thai (Native), English

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