


# Pupipat Singkhorn

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## EDUCATION

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### Chulalongkorn University

2022 - Present

Bachelor of Engineering - Computer Engineering Major. GPAX: 3.53

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

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### 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 Clustering, 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

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### Aihack Thailand 2023 - Ai Hackathon

December 2023

- Created a credit risk model using machine learning approach to forecast Long Overdue Debtors (LOD).
- 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 quantitative trading strategies.
- Implemented Portfolio Optimization techniques within trading strategies.

### Google Data Analytics Professional Certificate

July 2023

### 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 competitive strategy for the TrueMoney financial services application.

## MISCELLANEOUS

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### Technical Skills

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

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

Applications: Excel, Tableau, Power BI, Adobe Photoshop & Lightroom, Git, GitHub

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

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