

# Pupipat Singkhorn

693/120, Indy Condo, Itsaraphap 31 Road • Bangkok, 10600

pupipat.sk@gmail.com • 082 642 9767 •  LinkedIn.com/pupipatsk •  Github.com/pupipatsk

## EDUCATION

**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

**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.

**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

### 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