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 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 - 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 - ML for Fundraising Campaigns   October 2024

- Leveraged targeted marketing modeling to enhance donor outreach in a direct-contact fundraising campaign.
- Built a 2-stage ensemble machine learning model with a pipeline for precise predictions and improved targeting.
- Achieved 4th place by strategically balancing donation forecasts with contact costs.

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

- *Machine Learning Specialization* - Issued by: DeepLearning.AI and 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