Pupipat Singkhorn

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EDUCATION

Chulalongkorn University   2022 - Present

Bachelor of Engineering - Computer Engineering Major. GPA: 3.48
- Relevant Coursework: Pattern Recognition (Deep Learning), Natural Language Processing Systems (NLP), Algorithm & Data Structures, Database Systems, Optimization, Statistics, Signal Processing.

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 ensemble machine learning models to forecast used car prices, aiding strategic decisions for automotive loan approvals.
  - Collected and cleaned real-world business data, incorporating macro- and micro-economic factors.
  - Leveraged time-series analysis and Bayesian optimization techniques for enhanced accuracy.
- *Loss On Sale Forecasting for NPLs*
  - Built predictive models to estimate losses on Non-Performing Loans (NPLs), improving the bank's credit risk management.
  - Applied techniques like coarse classing, binning, and memory optimization to improve performance.

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

EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

Aihack Thailand 2023 - AI Hackathon | Awarded 1st prize and best performance prize.   December 2023
- Created a machine learning model to forecast credit default risk.

Stock Return Forecasting with Portfolio Optimization Project   April - May 2024
- Developed an alpha factor model to forecast stock returns using classical ML and LSTM networks.
- Designed and implemented quantitative trading strategies, leveraging historical data for backtesting.
- Integrated portfolio optimization techniques to maximize returns while minimizing risks.

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.

CUVI Stock Pitching | Finalist.   March - April 2025
- Conducted equity research and valuation of a SET-listed company; presented investment thesis and risk assessment to a panel of industry professionals and fund managers.

Participation in Business Case Competitions
- *Intania Case Competition* - Built UAM strategy using AI/cloud for 200K trips/year goal.   March 2025
- *Hult Prize at Chulalongkorn* - Developed a social enterprise idea aligned with the UN SDGs.   2023
- *Chulalongkorn Case Discovery x Ascend Money* - Formulated a strategy for financial services application.

Certifications
- *Financial Engineering and Risk Management Specialization* - 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