

# PEERAPAT TANCHAROEN

Data scientist (Manager) at Kasikorn Asset Management



[peerapat-t · GitHub](#)



[Peerapat Tancharoen | LinkedIn](#)



[peerapt.tcr@gmail.com](mailto:peerapt.tcr@gmail.com)



## Work experience

- Data analyst (Manager) – Kasikorn Asset Management (3M, 9Y)  
*Skill: SQL, Python, Dashboard, Machine learning, Git*
- Researcher (Public transportation policy) – Thailand development and research institute (TDRI) (1Y, 6M)  
*Skill: Spatial data, Research methodology, Econometrics*

## Education background

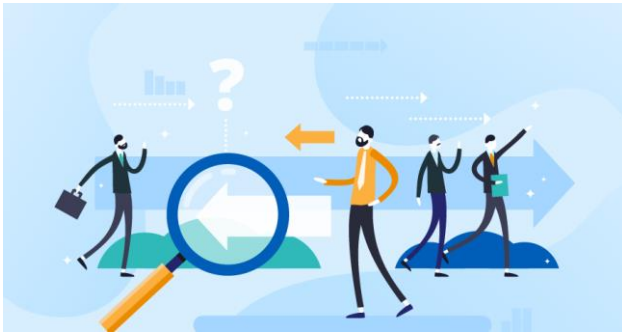
- Master's degree in Theoretical Economics from Thammasat University with a GPA of 3.97.  
*Thesis titled 'Developing a Taxation System for Controlling Air Pollution from Automobile Use: A Case Study of the Bangkok Metropolitan Area', focusing on tax optimization using GAMS language, presented at the SSRU National Conference.*
- Bachelor's degree in Economics from Srinakharinwirot University with GPA of 3.65 (1st Honors).  
*Activity: Qualified as a top 10 team in "Economics Phetyot Mongkut" National competition.*

## Interest

- I am focused on leveraging data science in business contexts, particularly through developing propensity models, churn predictions, and recommendation systems to boost revenue and customer engagement.

# PROJECT AT KASIKORN ASSET MANAGEMENT

## Mutual funds churn prediction model



**Description:** Develop a predictive model to identify at-risk customers, allowing for proactive engagement and retention strategies.

**Tools:** Python, SQL, Feature Engineering, Boosting, SMOTE, Threshold Tuning, SHAP

## Mutual funds customer segmentation



**Description:** Develop a clustering model to group investors based on behavior, enabling targeted communications and personalized product offerings.

**Tools:** Python, SQL, Feature Engineering, K-Means, PCA

## AI Marketing content creator



**Description:** Develop AI to compelling marketing content, improving campaign effectiveness, and driving customer engagement through personalized messaging.

**Tools:** Python, OpenAI API, Langchain, Streamlit

# PROJECT ON MY GITHUB



## Telco churn prediction model

*Tools: Python, Boosting, Random Undersampling, Threshold Tuning, SHAP*

## Banking customer segmentation

*Tools: Python, SQL, Feature Engineering, K-Means, PCA*

## Hourly Energy consumption prediction

*Tools: Python, Time Series Feature Engineering, Random Forest, Recursive Forecasting*

## False signal detection trading system

*Tools: Python, Financial Indicator, Trading Signal Detection*

## Market basket analysis

*Tools: Python, Apriori (from scratch)*

## Collaborative filtering recommendation system

*Tools: Python, Hybrid Collaborative filtering*

## Thai news tag prediction

*Tools: Python, TF-IDF, Multi-label classification, Streamlit*

## Document summarizer

*Tools: Python, OpenAI API, Langchain, Few-shot prompting, Streamlit*

## Dynamic pricing

*Tools: Python, Pricing Elasticity of Demand (PED), Regression tree*

# THESIS PROPOSAL – DYNAMIC PRICING

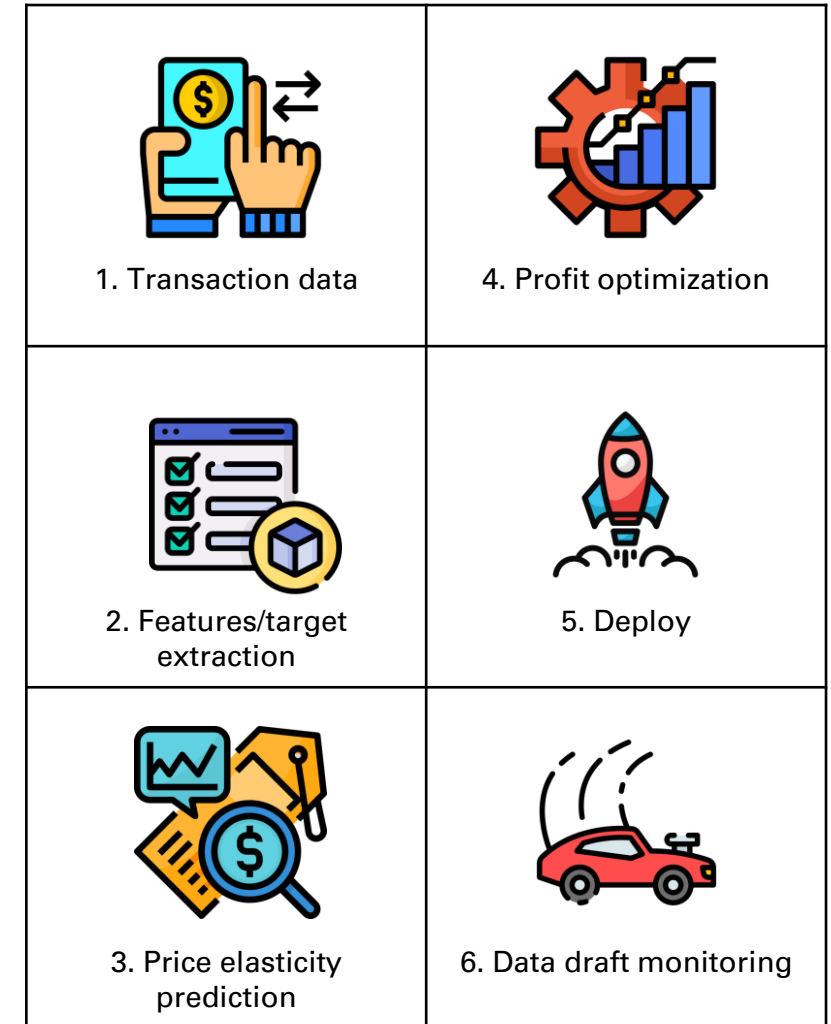
- Develop a predictive pricing model that uses regression, first-degree price discrimination theory, and optimization to individually tailor prices based on consumer willingness to pay.
- Utilize regression techniques such as linear regression, regression trees, or boosting algorithms to predict price elasticity and cross elasticity, represented by the equation:

$$\%Change\ in\ Q = \%Change\ in\ P + X$$

(price elasticity)      (cross elasticity)

- Maximize profit by using an optimization technique that uses predicted elasticity and includes contracts such as the cost of products

[Pricing on Point: The Art and Science of Dynamic Pricing | by Joan Ngugi | Medium](#)  
[Dynamic Pricing Implementation through Data Science: Price Optimization Strategies | by Joan Ngugi | Medium](#)  
[Calculating Individual Price Elasticity for Products | by Arthur Mello | Level Up Coding \(gitconnected.com\)](#)  
[Flight Fare Prediction - 0.96 R2 score \(kaggle.com\)](#)  
[2. Pricing Elasticity of Demand Modeling – Data Science Topics 0.0.1 documentation \(oneoffcoder.com\)](#)





# Q & A