TORNTHUN KATCHARUK

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EDUCATION

Chulalongkorn University   July 2018 – May 2022

- Bachelor of Engineering, Major in Industrial Engineering
- Relevant courses: Engineering Statistics, Computational Methods, Natural Linguistic Programming, Industrial Forecast, Quality Control, Operation Research, Engineering Experimental Design, Engineering Economy
- GPAX 3.30/4.00

CERTIFICATE

- Associate Data Analyst Certificate (DataCamp)
- Associate Industrial Engineering License

WORK EXPERIENCE

KBANK   June – July 2021

Chatbot design and knowledge management

- Focusing on getting insights from front desk employees to identify a problem they have to deal with and frequently asked questions from customers.
- Created, developed, and tested a Chatbot which helps KBANK's employees and customers reduce their time and effort on getting information using KBANK platform.

ACADEMIC PROJECTS

Convenience store daily sales forecasting by time series and machine learning methods   Oct 2020 – May 2021

- Find suitable model that can accurately forecast daily sales volume for each focused category from 6 methods (includes time series, machine learning and deep learning) and to identify factors that impact convenience store sales for useful insights such as promotion, covid-19, pandemic, and seasons with average MAPE at 24%.

Sentiment analysis with machine learning Project   Feb 2021

- Classified restaurant reviews into aspects (food, price, service, ambience and miscellaneous) and polarity terms (positive, negative, neutral and conflict) by using Logistic Regression, NBOW, DAN and CNN.
- Evaluated by using an overall f1-score of about 75%.

Moisture-Activated Dry Granulation   Oct 2021

- The moisture content of granules was predicted before pelletizing by using K-Nearest neighbors and Random Forest. And variables used in prediction derived from the Near-Infrared light Spectroscopy to help in elemental analysis.
- Evaluated by using MAPE (K-Nearest neighbors: 0.2365, Random Forest: 0.1525).

Mobile and online banking transaction volume forecasting in Thailand   Nov 2021

- Used Causal method and Time series method (Naïve, Holt's linear exponential smoothing and ARIMA) to predict the amount of mobile and online banking transaction volume by using Excel, Minitab and RStudio as the tools.

Meal planning during COVID-19 outbreak   May 2020

- Managed meal in each day for enough nutrient plan and low cost under COVID-19 conditions.
- Resulted in optimal solution by using CPLEX Optimization Studio.

Bee company hotel website for booking rooms belonging to the company   Nov 2020

- Created and designed a prototype database for hotels and customers in company by using SQL.
- Designed and developed UX/UI for users by using HTML and PHP.

COMPETITION

Simio Student Competition, participant.   April 2021

- Analyzed workstation processing time data of a shelving manufacturer company and successfully identified bottle-neck station that hinder company overall productivity.
- Incorporated DDMRP buffering solution to increase product throughput by 40% and reduce more than 20% stockout.

SKILLS

- **Language**: Thai (Native), English (Intermediate) – TOEIC score: 700
- **Microsoft Office Programs**: Excel (Intermediate), Word (Intermediate), PowerPoint (Intermediate)
- **Programing**: Python, R, Minitab, HTML, SQL, Power BI