

NATAPOL LIMPANANUWAT

MECHANICAL ENGINEERING

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Natapol Limpananuwat

PROFILE SUMMARY

I am a fresh graduate mechanical student from faculty of Mechanical Engineering with no experience in this particular field. Although I am still a beginner, I am eager to learn and expand my knowledge continuously. I'm extremely interested in data and passionate about Machine Learning and Deep Learning. Furthermore, I would like you to visit my [Streamlit web app](#) as my portfolio. In this portfolio, you will find a showcase of my data science projects and the skills I have acquired

SKILLS

Programing Languages : Python / SQL **Technical skills** : Data Analysis / Machine Learning / Deep Learning

Tools and Frameworks : Scikit-Learn / Keras / TensorFlow / PyTorch / Kafka / Airflow / Streamlit / Docker / AWS (S3, EC2, Glue, Athena) / Tableau

PROJECTS

Face Recognition App

Feb 2023

- Build a Face Recognition system web app using **Streamlit** framework
- Implemented **MTCNN** algorithm for Face Detection and encode face image by **InceptionResNet** model which pre-trained on VGGFace2 dataset
- Compare face similarity through euclidean distance for authenticating

Real-time sales analytics and implement ETL pipeline for retail store

Dec 2022

- Generate mock transactions to the **Kafka** topic and store the data in **S3 Bucket**
- Extracts metadata which in **S3** and stores it in Data Catalog using **Glue crawler**
- Designed real-time sales dashboard using **Tableau** from the query result of **Athena**
- Performed end-to-end **ETL** pipeline to **extract** data from landing zone **S3 Bucket**, **transform** date with features engineering using **PySpark** and **load** the data into processed folder with **parquet** format using **Airflow** to orchestrate the pipeline

Customer Segmentation of retail transaction

Feb - Apr 2022

- Implemented data cleaning and data preprocessing to raw data
- Apply **Cohort Analysis** to analyze customer behavior and **RFM analysis** to identify the customer segment
- Visualize the top 3 category products in each segment and the correlation between category products for cross selling strategy
- Performed **Churn prediction** model with Linear Regression model and gain the final result at 90% F1 score

Sentiment Analysis Amazon Food Reviews Dataset

Aug - Oct 2022

- Performed word representation since frequency-based like Bag of words and **TF-IDF** and use Undersampling for imbalance dataset then evaluate model performance
- Implement **word2vec** pretrain-model from **SpaCy**
- Fine-tuning a BERT model to fit with our dataset and classify this problem

EDUCATION

Chulalongkorn University | *Bachelor's Degree*
Mechanical Engineering | GPA =2.89

2018-2022

CERTIFICATIONS

- DataCamp | Machine Learning Scientist with Python, Sep 2022
- DataCamp | SQL Fundamentals, Nov 2022
- DataCamp | Data Engineer with Python, Nov 2022