NATAPOL LIMPANANUWAT

MECHANICAL ENGINEERING

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PROFILE SUMMARY

I am a fresh graduate mechanical student from faculty of Mechanical Engineering who is extremely interested in data and passionate about Machine Learning and Deep Learning. Because of believing that many applications, ML/DL can be applied and make conventional processes or methods more efficient and convenient. Furthermore, I would like to dive deep into the data to find insights that can provide solutions to business questions.

SKILLS

Technical skills : Python / SQL / SK-earn / Keras / TensorFlow / Kafka / Airflow / AWS (S3, EC2, Glue, Athena) / Tableau / PySpark

PROJECTS

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 cosmetic transaction — Feb - Apr 2022

- Implement 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

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

Structure designed and built the mobile base robot — Nov 2021 - Feb 2022

- Determine fabrication process of components and choose standardized parts for **cost reduction**
- Designed parts using **Fusion 360** and applied with **Finite Element Analysis** for validation designing
- Built **3D Printing** rapid prototypes for proofs-of-concept before CNC
- Redesigned parts to minimize size as possible for the CNC process and improved **Design For Assemble**

EDUCATION

Chulalongkorn University | *Bachelor's Degree* — 2018-2022
Mechanical Engineering | GPA =2.89

CERTIFICATIONS

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