JIWON PYO

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EDUCATION

Bachelor's Degree:

Pusan National University (2017/03- 2022/02)

Major in Industrial Engineering

Exchange Program:

CY Cergy-Paris Université (Cergy, France), (2020/01-2020/04)

Language

WORK EXPERIENCE

Intelligent Data System Laboratory Internship (2021.09.01~)

- Department of Computer Science & Engineering, Seoul National University
- Participated in a previous research project on fashion image processing technology for intelligent fashion search engine

번개장터(bunjang) Data team Internship (2020/09/21-2021/01/20)

Data Analysis Task

- Analyzing impression, click, transaction log data and extracting insights using SQL and Python
- Analyzing Fraud detection data in transaction

Recommender Systems

- Participate in a meeting of the latest recommender systems algorithm trends research review
- A/B testing of recommender systems algorithm using CTR and various indicators

Thebeesoft (LG CNS partner) TA, DBA Internship (2020/05-2020/08)

LG U+ ERP System Project

- Transferring big data, changing table and processing requests using Linux, oracle
- Experience in building and managing DB and development servers using AWS
- cloud computing, AWS

Business Service Computing Laboratory **(Undergraduate researcher)** (2019/09-2019/12)

- Department of Industrial Engineering, Pusan National University
- Learning Python and CNN Concepts

PROJECT EXPERIENCE

• **Fashion image processing technology for intelligent fashion search engine research project** (IDS Laboratory, 2021~)

- Roles: Implementing baseline recommender systems and finding a dataset for comparison with the latest Deep Learning-Based recommender systems.

    (Top popular, Item/user KNN CBF, Item/user KNN CF, Hybrid, $P3\alpha$, $RP3\beta$)

- Skills: Traditional Recommender systems, Python

- **Emotional keyword-based restaurant recommendation service using content-based filtering and word2vec** (Capstone Design Project, 2021, 4 months)
  - Summary: A restaurant recommendation service based on the atmosphere of the restaurant you want or your mood on the day
  - Roles: Collecting data, creating two recommender systems algorithms, Proposing Weigted-Item2Vec, a new form of Prod2Vec
  - Skills: Content Based Filtering, Web Crawling, NLP, Weigted-Item2Vec, Word2Vec, K-means Clustering
  - Achievement: Got 535 users in 2 weeks after the distribution of the webapp page, and 93% of the users were satisfied with 4 or more points by the recommended results.

- **Participated in AI Competition for Natural Language-Based Climate Technology Classification** (NLP Study group, 2021, 3 months)
  - Summary: A competition to label natural language-based national tasks with accurate climate technology.
  - Roles: Data analysis and Developing LSTM models, using SQL and Python
  - Skills: Python, Pytorch, SQL / LSTM, BERT

- **Development of purchase conversion rate prediction algorithm using user's wish log** (personal project in 번개장터, 2020, 2 months)
  - Summary: An algorithm that predicts the probability of purchase for a particular product based on demographic information such as user's previous steamed record and age/gender, and previous transaction data.
  - Roles: Collecting log data using SQL, developing a high-precision purchase conversion rate prediction algorithm
  - Skills: Python, SQL / Random Forest, XGBoost, smote

- **Creating contest information searching / Team Matching Webpage** (Database Term Project, 2019, 3 months)
  - Summary: Creating contest information searching / Team Matching Webpage with database
  - Roles: Database Management
  - Skills: html, SQL, PHP

- **Analysis of factors affecting the crime rate through analysis of crime data by district in Busan** (Data Mining Term Project, 2019, 3 months)
  - Summary: Using public data of Busan such as the number of CCTVs, population density, etc.
  - Roles: Research, PCA using R, Visualization
  - Skills: R, tableau / negative binomial regression

SKILLS & ABILITIES

- Programming Language: SQL(advanced), Python(intermediate), R, Java, Html, PHP
- TOEIC 890, New TEPS 356
- ADsP (Advanced Data Analytics Semi-Professional) (2021.08.29)
- Mostly work as a leader of the team work.

HONORS AND AWARDS

- **CK Academic Excellence Scholarship** (2017-2018)
- **National Science & Technology Scholarship** (2019-2021)