



Kisoo Kim

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"The important thing is an unbreakable heart."

Education

KwangWoon University

B.S. IN INFORMATION CONVERGENCE, MAJOR IN DATA SCIENCE

- Total GPA of 4.31 / 4.5, Major GPA of 4.32 / 4.5 (Credits taken : 127/133)

Seoul, S.Korea

Mar. 2018 - Feb. 2024 (Expected)

Internships

Process-Aware Data Analytics Lab

UNDERGRADUATE RESEARCHER

- Data Science research based on Process mining and Text mining
- Participated in research paper seminars

Seoul, S.Korea

July. 2022 - Present

Project Experience

Cosmetic recommendation application through text mining

TEAM LEADER, PRESENTER

- Capstone design project for graduation work for one semester
- Development of a system that recommends cosmetics suitable for customers through a keyword-based search function.
- Sentiment analysis has been used for showing recommendation details, implemented as app using Android Studio.

Seoul, S.Korea

Mar. 2023 - Nov. 2023 (Expected)

Development of SW static test false alarm automatic classification system

TEAM MEMBER

- Industry-University Linkage SW Project of 2022-Fall Semester
- Analyzed given D2A data, preprocessed code data, built deep learning model to detect false alarms generated by static analysis tools.
- Studied static analysis reading paper 'A Prioritizing Security Alerts - DoD Case Study'

Seoul, S.Korea

June. 2022 - Feb. 2023

Dacon Basic Competition, a soccer player's prospect prediction

INDIVIDUAL COMPETITION

- Prediction of promising players using the ability information of players stored in FIFA 22
- Through hyperparameter tuning, ensemble and adjusting the threshold of the prediction probability, Macro F1 Score raised to 77.47%.
- Realized how to improve Macro F1 Score when there is a slight imbalance

Seoul, S.Korea

Nov. 2022

Dacon Basic Competition, travel product application prediction

INDIVIDUAL COMPETITION

- Prediction of whether to apply for travel products through basic information of customers and information related to travel products.
- Through hyperparameter tuning and stacking ensemble, the accuracy raised to 91.88%.
- Generate derived variables that have a significant effect on prediction, and select variables using feature importances.
- Studied Machine Learning Basic Algorithm (LR, RF, XGB, LGBM, ETC)

Seoul, S.Korea

Nov. 2022

Song Recommendation system based on user's emotions

TEAM MEMBER, PRESENTER

- Term project for course True Light Design Semester of 2022-Spring semester
- Collected music data through Crawling and applied sentiment analysis on user's SNS posts.
- Songs were recommended based on predicted emotions, and cosine similarity was used in the song recommendation process.
- Deployed as a Chrome extension for practical use

Seoul, S.Korea

Mar. 2022 - Jun. 2022

Topic Modeling by rating for [today's house] review for self-employed students

TEAM LEADER, PRESENTER

- Term project for course Text Mining of 2022-Spring semester
- Sentiment Analysis is performed to identify positive/negative reviews and review ratings are reset based on the results of sentiment analysis.
- Topic modeling was conducted with reset review ratings, and insights were derived from important topics for each rating.

Seoul, S.Korea

April. 2022 - June. 2022

Prediction of presence or absence of heart disease using imbalanced data

Seoul, S.Korea

TEAM LEADER, PRESENTER

April. 2022 - June. 2022

- Term project for course Machine Learning of 2022-Spring semester
- Found a preprocessing technique suitable for the data by looking for methods to replace missing values, scaling for continuous variables, and encoding methods for categorical variables.
- Studied Machine Learning model techniques such as Random Forest, LightGBM(LGBM), Support Vector Machine(SVM), and applied them to tableau data.
- Interpretation of the predictive results of the machine learning model was performed using interpretable algorithms (XAI) such as PDP, ICE, and SHAP.
- Realized that when evaluating performance, selecting suitable performance indicators for the problem to be solved, such as precision and f1 score, as well as accuracy.

Running application development for runners

Seoul, S.Korea

INDIVIDUAL PROJECT, PRESENTER

Oct. 2021 - Dec. 2021

- Individual Project for course Mobile Programming of 2021-Fall semester
- As a motif of 'Nike Run' application, it was implemented to record running and walking separately.
- SQLiteDataBase, Intent, ListItem, MenuBar was used for measuring and searching records.

Others

Creation of Gwangjin-gu traffic status dashboard (Using Python and Tableau)

Creation of national hospitals, clinics and pharmacies dashboard (Using Python and Tableau)

Implementation of Algorithms to solve imbalance problem in Machine Learning (Using PySpark)

Analysis of the Venue network of people living in Seoul (Using Social Network methodology)

Development of Psychological Propensity prediction Algorithm (DACON, Using Python)

Prediction of Shopping Mall review rating (DACON, Using Python)

Analysis of Denver's crime rate (Using Excel and Tableau)

Dashboard of changes in people's travel style before/after COVID-19 (Using JavaScript, React and d3.js)

Awards & Honors

AWARDS

2023	2nd place , Dacon Basic in predicting wind power generation	Dacon
2023	Encouragement Award , Industry-University Linkage SW Project Competition	Kwangwoon Univ.
2022	3rd place , Dacon Basic in predicting soccer players promising	Dacon
2022	2nd place , Dacon Basic in predicting travel product application	Dacon
2019	Dean's List , for Academic Excellence	Kwangwoon Univ.
2018	Dean's List , for Academic Excellence	Kwangwoon Univ.

HONORS

2023	Semester High Honors , Awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2022	Semester High Honors , Awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2021	Semester High Honors , Awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2019	Semester High Honors , Awarded to students with high achievements throughout the semester	Kwangwoon Univ.
2019	English Excellence Scholarships , Awarded to students for excellence in 'TOEIC ALL CARE' program	Kwangwoon Univ.
2018	Semester High Honors , Awarded to students with high achievements throughout the semester	Kwangwoon Univ.

Extracurricular Activity

Student Association Big Data Club BOAZ

Seoul, S.Korea

CORE MEMBER

Jan. 2023 - Jan. 2024 (Expected)

- Working as a club Member in Visualization and Analysis sessions.
- Learned Tableau for basic visualization, created a dashboard that informs the hospital and pharmacy dashboard status.
- As the Leader at the study group 'Deep Learning Basic with PyTorch', learned about the basic theory of deep learning and implemented it using PyTorch.

Student Association presentation club SPLING 47th

Seoul, S.Korea

COORDINATOR

Jan. 2022 - June. 2022

- Served as a mentor to help members improve their presentation skills.
- As the head of the HR team, understood the internal environment from the perspective of club members and managed internal rules.

Student Association presentation club SPLING 45th

CLUB MEMBER

Seoul, S.Korea
Aug. 2021 - Dec. 2021

- Improved the ability for creating Powerpoint and presentation skills.
- Received an excellent completion award and a perfect attendance award while participating in club activities.

Education Donation Program 'Sok Sok Camp'

TEAM LEADER

Seoul, S.Korea
Aug. 2021 - Dec. 2021

- Taught coding (entry) to 6th grade students during summer vacation.
- As a team leader, planned the training curriculum and oversaw accounting and administrative tasks necessary for training.
- Learned how to improve the quality of education and the importance of communicating with team members.

Teaching

J's plan Mathematics Academy

INSTRUCTOR

Seoul, S.Korea
May. 2021 - June. 2023 (Expected)

- Taught math to middle school and high school students
- Covered all middle school math and Probability & Statistics, Calculus in preparation for college entrance exams.
- Created materials for class and prepared test questions.

Software Summer & Vacation School

TEACHING ASSISTANT

Seoul, S.Korea
Jan. 2022 - Feb. 2023

- Short courses of Python Programming, C Programming in Software Convergence College
- Assisted in programming practice, answered individual questions and supervised exams.

Teaching Assistant

DISCRETE MATHEMATICS

Seoul, S.Korea
Sep. 2022 - Dec. 2022

- Course in Department of Information Convergence for freshman
- Marked midterm and final exam, supervised exams

Individual tutoring

INSTRUCTOR

Seoul, S.Korea
Apr. 2018 - Oct. 2019

- Taught math to middle school and high school students
- Covered equations, functions, and sets that are the basics of high school mathematics.
- Created handmade textbook and mock exam for class.

Skills

Programming Python, R, C, Java

Deep Learning Skicit-learn, PyTorch, Keras, TensorFlow

Data Analysis Numpy, Pandas, Matplotlib, Seaborn, Tableau, NodeXL

English Proficiency

Fluent in English, Native in Korean

- 2023.02 - TEPS 341
- 2018.09 - TOEIC 840