



KISOO Kim

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"The important thing is an unbreakable heart."

Education

Seoul National University

Seoul, S.Korea

COMBINED M.S/PH.D IN ARTIFICIAL INTELLIGENCE COLLABORATIVE COURSE

Mar. 2024

- Data Mining Laboratory under the supervision of Prof. U Kang

KwangWoon University

Seoul, S.Korea

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

Mar. 2018 - Feb. 2024 (Expected)

- Total GPA of 4.30 / 4.5, Major GPA of 4.32 / 4.5 (Credits taken : 161/133)

Internships

Process-Aware Data Analytics Lab

Seoul, S.Korea

UNDERGRADUATE RESEARCHER

July. 2022 - July. 2023

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

Project Experience

NLP-based customer review analysis and solution presentation

Seoul, S.Korea

TEAM MEMBER

Aug. 2023 - Jan. 2024

- Project in the ADV Course of the Big Data Club BOAZ
- Sentiment Analysis is performed to identify positive/negative reviews and review ratings are reset based on the results of sentiment analysis.
- LDA Topic modeling was conducted with reset review ratings, and insights were derived from important topics for each rating.
- The performance of the sentiment analysis model was 93.01%, and the review analysis results were posted on the web.

Cosmetic recommendation application through text mining

Seoul, S.Korea

TEAM LEADER, PRESENTER

Mar. 2023 - Nov. 2023

- 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.
- LIME was used to interpret the results of sentiment analysis, and a dictionary of keywords was constructed through Fasttext.
- LSTM was used for sentiment analysis, and the positivity and negativity of keywords were confirmed.

Development of SW static test false alarm automatic classification system

Seoul, S.Korea

TEAM MEMBER

June. 2022 - Feb. 2023

- 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'

Song Recommendation system based on user's emotions

Seoul, S.Korea

TEAM MEMBER, PRESENTER

Mar. 2022 - Jun. 2022

- 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

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

Seoul, S.Korea

TEAM LEADER, PRESENTER

April. 2022 - June. 2022

- 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.

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

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 (DAICON, Using Python)

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

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

Running application development for runners (Using Android Studio)

Awards & Honors

AWARDS

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|---------|--|-----------------|
| 2023.11 | Encouragement Award , Kwangwoon University graduation work exhibition | Kwangwoon Univ. |
| 2023.09 | Popularity Award , Creating educational materials for beginners in the field of artificial intelligence | Dacon |
| 2023.06 | 3rd place , Dacon Basic in predicting car price | Dacon |
| 2023.03 | 2nd place , Dacon Basic in predicting wind power generation | Dacon |
| 2023.02 | Encouragement Award , Industry-University Linkage SW Project Competition | Kwangwoon Univ. |
| 2022.12 | 3rd place , Dacon Basic in predicting soccer players promising | Dacon |
| 2022.09 | 2nd place , Dacon Basic in predicting travel product application | Dacon |
| 2019.04 | Dean's List , for Academic Excellence | Kwangwoon Univ. |
| 2018.09 | Dean's List , for Academic Excellence | Kwangwoon Univ. |

HONORS

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|------|---|-----------------|
| 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

- 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
Apr. 2021 - Sep. 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 - Nov. 2023

- 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

Others

English Proficiency

- 2023.02 - TEPS 341
- 2018.09 - TOEIC 840

Certification

- 2021.04 - SQLD
- 2021.04 - Korean History Proficiency Test Level 1
- 2019.10 - Linux Master Level 2