GIMIN KANG

School of Industrial and Systems Engineering
Korea Advanced Institute of Science and Technology, Daejeon, Korea

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Education

Korea Advanced Institute of Science and Technology Daejeon, South Korea
B.S in Industrial and Systems Engineering *Feb. 2017 - Present*
- Advisor: Prof. Young-Jae Jang
- Thesis: News Attention Analysis Based on Stock Price Data

Busan-Il Science High School Busan, South Korea
 Feb. 2015 – Feb. 2017

Professional Experiences

Korea Institute of Science and Technology Information Daejeon, South Korea
AI Technology Research Team Intern *Apr. 2023 – Jun. 2023*
- Natural Language Processing
- Data Cleaning

Project Experiences

The Voice of ChatGPT
Project Member UI Lab., KAIST, Daejeon, South Korea
Advisor: Prof. Alice Oh, Ph.D. candidate Ha-Neul Yoo *Mar. 2023 – May. 2023*

- Train ChatGPT API with Korean dialects dataset and evaluate the performance.
- Prompt Engineering
- Few shot training

Financial Engineering with Reinforcement Learning
Project Member KAIST, Daejeon, South Korea
Advisor: Ph.D. candidate In-Su Choi *Jan. 2023 – Present*

- Extract the relations, attributes of financial indices and evaluate RL agents with policy distillation.
- Seq2seq models
- Deep Reinforcement Learning, Oracle Policy Distillation

Artificial Intelligence in Finance Engineering
Undergraduate Research Assistant FE Lab., KAIST, Daejeon, South Korea
Advisor: Prof. Woo-Chang Kim *Jan. 2023 – Feb. 2023*

- Connect stock holding data to graph based SOTA Recommender system.
- Graph Neural Network
- Recommender System

Hana Bank Data Science Competition
Team Leader KAIST, Daejeon, South Korea

- Predict the small business personnel based on login data.
- Exploratory Data Analysis
- Ensemble Trees

News Attention Analysis Based on Stock Price Data

Undergraduate Research Assistant   AAI Lab., KAIST, Daejeon, South Korea
Advisor: Prof. Il-Chul Moon   *Jun. 2022 – Aug. 2022*

- Figure out the relationship between news and stock price changes.
- Natural Language Processing
- Attention Mechanism, BERT, LSTM, T5

Hankook Tire Project

Team Member   KAIST, Daejeon, South Korea
                                                                                                  Jun. 2019 – Aug. 2019

- Solve the half-cart efficiency optimization problem.
- Linear Programming
- Multi-Objective Optimization

LEGO Factory Process Improvement Project

Team Member   KAIST, Daejeon, South Korea
                                                                                                  May. 2018 – Jun. 2018

- Improve the performance of a manufacturing line of LEGO simulation model.
- MATLAB

Honors and Awards

Awards

2022   Excellence Award (2nd prize), IE Frontier, KAIST
2022   Participation Award (3rd prize), FIELD, Korean Institute of Industrial Engineers (KIIE)

Scholarships

2017-2019,   **National Scholarship ($3,000 * 8), KAIST**
2022
- This is a national scholarship awarded to entire KAIST students with an average GPA of 2.7/4.3 or higher for the semester concerned.

Interests and Skills

Interests
- Financial Engineering
- Data Science and Statistics

Course history
Sophomore
- Introduction to Linear Algebra
- Engineering Statistics
- Manufacturing Process Innovation
- Financial Management

- Introduction to Economics
- Production Management
- Data Structure
- Operations Research: Stochastic Models

Junior
- Introduction to Human Engineering
- Discrete Mathematics
- Case Studies for Industrial and Systems Engineering
- Decision Analysis and Risk Management
- Introduction to Financial Engineering
- Analysis of Weapon Systems

Senior
- Operations Research: Optimization
- Statistical Machine Learning
- Principles of Accounting
- Introduction to Data Science for IE

Skills

Language	Korean (Native), English (TOEIC / 970)
Programming	MS Office, Python, MATLAB

Other Activities

35th Air Defense Artillery Brigade Public Affairs Office
KATUSA (Sergeant)

Osan Air Base, South Korea
May. 2020 – Nov. 2021

School of Industrial and Systems Engineering Student Council
Accounting Manager

KAIST, Daejeon, South Korea
Mar. 2018 – Feb. 2020

Student Culture and Space Committee
Media Team Leader

KAIST, Daejeon, South Korea
Mar. 2017 – Feb. 2019