

SeongJin Kim

M.S student

SeongJin Kim
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Education

Ulsan National Institute of Science and Technology (UNIST)

M.S. in Industrial Engineering

Mar 2024 - Feb 2025 (Expected) at Ulsan, Republic of Korea

B.S. in Industrial Engineering

Mar 2018 - Feb 2024 at Ulsan, Republic of Korea

Research Interests

Application of machine learning and deep learning to various fields.

I enjoy handling and processing a variety of data.

Currently, I'm interested in

- Addressing the real problems in Deep Anomaly Detection in LG-LQC project.
- Improving performance in irregular, multivariate time series by using Neural ODEs/SDEs.

Research Experience

M.S candidate at Data Analytics Lab (DAIab) @ UNIST

- Jan 2024 -Present, Advisor: Prof. Sungil Kim
- LG - LQC
: By using and developing Deep Anomaly Detection to address the real problems in LG-LQC project

Intern at Financial Engineering Lab (FElab) @ UNIST

- Jan 2023 - Dec 2023, Advisor: Prof. Yongjae Lee
- LLMs Analyzing the Analysts: Do BERT and GPT Extract More Value from Financial Analyst Reports? (ICAIF'23, 2nd author)
: By comparing portfolios between made by analyst-score based and made by LLMs with sentiment analysis.
- Hugraph - Development of AI-based news-related keyword extraction and group classification model (2023)

: By using contrastive learning and classification method to cluster and extract the keyword of news

- 개인별 의료비 예측 인공지능 모형 개발 (국민건강보험공단 맞춤형 DB)
: Predicting individual future medical expense by using Tree-based algorithms(XGB)

Intern at **Machine Learning, Vision & Language Lab (MVLL) @ UNIST**

- Mar 2022 - Dec 2022, Advisor: Prof. Taehwan Kim
- Multimodal Learning
- **Research Project:** Developing a multimodal interactive conversational agent with Audio, Vision and Facial information, trained in korean.

Work Experience

Air Force 16th Fighter Wing

- Mar 2020 - Oct 2021, Yecheon, Republic of Korea

Mentoring & Teaching

Campus Mentoring (학업진로상담 멘토링), Mentor

Mar 2024 - Present, Funded by Student Affairs Team @ UNIST

A.I. 4.0 Studio, Mentor, (최우수상)

May 2022 - Nov 2022, Funded by Leadership Center @ UNIST

- Developing music recommendation agent, which recommends music by using LSTM-based sentiment analysis and interacts with text and voice, with high school students using Pytorch

Freshman CA(Campus Assistant) team leader

- Mar 2019 - Dec 2019, Funded by Leadership Center @ UNIST

Scholarships

Academic Performance Scholarship

- Mar 2018 - Present, Funded by UNIST

Awards

S&P Global-KAIST-UNIST-경희대 퀀트 투자 모델 경진대회 (Quant Competition) 최우수상

- Topic : Candlestick pattern trading strategy for short-period with respect to binary classification

UNIST AI Challenger program (AICP) 우수상

- Topic : Equity research report-driven investment strategy

Extra-Curricular Activities

DHE Student Council

Mar 2019 - Jun 2020, School of Design and Human Factor engineering @ UNIST

- Director of Planning Sector

UNIST Student Dormitory Council

Mar 2018 - Dec 2019, Student Organization @ UNIST

- Deputy Director, External Cooperation Sector

Programming Skills

Python, Pytorch