

Jeehong Kim

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RESEARCH INTEREST

Graph Neural Network My primary focus is to enhance the performance of GNN models by modifying the information flow of graphs.

- **Keywords:** Graph Anomaly Detection, Graph Rewiring, Heterophilous Graphs

EDUCATION

Korea University, Bachelor's Degree in Industrial Management Engineering	Mar 2019 – Feb 2023
Seoul National University, MS-Ph.D. Integrated Course in Data Science	Mar 2023 – Current

WORK EXPERIENCE

Lab Intern, AIDA (Artificial Intelligence & Data Analytics) - Korea University	May 2021 – Jan 2022
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- Paper Reviews on: 'GAN', 'Anomaly Detection', 'Transformer'
- Solved anomaly detection task on speech data using mel-spectrogram
- Attended 'HAICON' as an extension of anomaly detection task
 - Advisor: Prof. Sungwon Han

Lab Intern, DSAIL (Data Science & Artificial Intelligence) - KAIST	June 2022 – Aug 2022
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- Paper reviews and model implementations on: 'Graph', and 'Recommendation System'
- Advisor: Prof. Chanyoung Park

AWARDS & SCHOLARSHIPS

Data Visualization Competition, Korea University, Yonsei University, Intel	Aug 2021
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- Received grand prize
- Visualized the relationship between the patient and their deductible premium
- Tools Used: Power BI, Python

Industrial Engineering Project Competition, Korean Institute of Industrial Engineers	Oct 2021
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- Participation award
- Topic: Designing Dynamic Corridor Network of K-UAM using A-star Algorithm

HAICON2021, Korea Institute of Information Security & Cryptology	Nov 2021
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- Built an AI model for detecting security threats in industrial control systems (Time series anomaly detection)
- Ranked 6th among 177 participating teams
- Tools used: Pytorch, Tensorflow

Veritas Scholarship, Korea University	Feb 2022
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- Research on the detection of anomalies in the manufacturing process
 - Advisor: Prof. Sungwon Han

Projects

Visualization for Ship Collision Risk Assessment	Mar 2024 - Present
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- Collaboration with Korea Research Institute of Ships & Ocean Engineering (KRISO)
- Developed a visualization system 'FURIOUS: Fully Unified Risk-assessment with Interactive Operational User System for vessels'.

Extracurricular

Samsung Dream Class, Math and English Tutoring

Sep 2021 – Feb 2022

- Taught middle school students math and English

Korea-China Leadership Program

July 2019 – Aug 2019

- Hosted by KFAS (Korea Foundation for Advanced Studies)

Skills and Attributes

Personality: Energetic, Flexible, Responsible, Challenging, Cooperative

Abilities: Bi-lingual, Programming, English Speaking

English: TOEFL (112), TOEIC (980), TEPS (510)

Programming: Python, Pytorch, Deep Graph Library (DGL), Pytorch-Geometric