Jiwoo Shin

natu33@kaist.ac.kr | **Personal Website** | **LinkedIn**

EDUCATION

Korea Advanced Institute of Science and Technology, Daejeon, South Korea   03/2019 – Present
B.S. in Industrial and Systems Engineering & Computer Science (Double Major)
- GPA: 3.86/4.3, **Major GPA: 4.02/4.3**
- 2 years leave of absence for mandatory military service (10/2022 - 07/2024)

University of Portland (UP), Portland, OR   08/2025 – 12/2025
- Exchange Student

Chungnam Science High School, Gongju, South Korea   03/2017 – 02/2019
- Early Graduation

WORK EXPERIENCE

Spiercore Inc., Daejeon, South Korea   12/2024 - 02/2025
- AI Research Engineer Intern
- Task: Predicting ADMET properties of molecules through GNN models pretrained in a multimodal setting with molecular text information

RESEARCH EXPERIENCE

KAIST AAILab, Daejeon, South Korea   03/2025 - 07/2025
- Advisor: Prof. Il-Chul Moon
- Research Topics: Training-Free Safe Image Generation in Text-to-Image Diffusion Models
- Collaboration with **NAVER Corp.**

KAIST AAILab, Daejeon, South Korea   09/2024 - 12/2024
- Advisor: Prof. Il-Chul Moon
- Research Topics: Retrieval-Augmented Generation (RAG)

KAIST AAILab, Daejeon, South Korea   03/2022 - 08/2022
- Advisor: Prof. Il-Chul Moon, Ph.D. Mingi Ji
- Research Topics: Knowledge Distillation, Class Imbalance

KAIST AAILab, Daejeon, South Korea   12/2021 - 02/2022
- Advisor: Prof. Il-Chul Moon
- Research Topics: Probabilistic Deep Generative Model

KAIST Financial Engineering Lab, Daejeon, South Korea   06/2021 - 08/2021
- Advisor: Prof. Woo Chang Kim
- Research Topics: High Frequency Trading, Reinforcement Learning

PUBLICATIONS

[1] "**Nodes-in-Cluster Significance Score(NCSS): Keyword Extraction with Redefined TW-IDF using Stock News Text Data**" Junhyeok Jung*, Kwanghyeon Lee*, **Jiwoo Shin***, Jieun Han*, Korea Computer Congress (KCC 2022, poster)

AWARDS

Dean's List (Top 3%), KAIST ISE	Fall 2024
KAIST IE Frontier Encouragement Award	Nov 2022
Dean's List (Top 3%), KAIST ISE	Fall 2020

SCHOLARSHIPS

Korea–U.S. Advanced Technology Youth Exchange Program Scholarship	Fall 2025
Department Honors Scholarship (Rank #2), KAIST ISE	Fall 2022
Department Honors Scholarship (Rank #1), KAIST ISE	Fall 2020

ACTIVITIES

KAIST Buddy Program   Fall 2024
- International Exchange Student Assistant

Student Council (Department of Industrial and Systems Engineering)   2020 - 2021
- Vice Representative (2020)
- Vice President (2021)