Yeajin Lee

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GitHub: https://github.com/Yeazzing | Portfolio : https://buly.kr/6ByLL0s

Education

Master of Financial Engineering

Korea University, Seoul, South Korea   03/2024 – 02/2026

- Student Researcher, AI Math Lab

Bachelor of Artificial Intelligence Convergence (Business&AI) / Economics

Hankuk University of foreign studies, Seoul, South Korea   03/2019 – 02/2024

- Double Major
- GPA: 3.81 / 4.5

Publications

1. TDNN-Based Double-under Ropejumping Recognition Model   06/2024

Yanggee Kim*, **Yeajin Lee**, Wanshan Cui, Donghun Lee

Korean Institute of Information Scientists and Engineers

2. IPPRO: Importance-based pruning with projective offset for magnitude-independent scoring

Jaeheun Jung*, Jaehyuk Lee*, **Yeajin Lee**, Donghun Lee   In Progress

arXiv preprint: https://arxiv.org/abs/2507.14171

Patent application: No. 10-2025-0087784

Under review at ICML 2026

3. Broadband Ground Motion Synthesis by Diffusion Model with Minimal Condition   07/2025

Jaehyuk Lee*, Jaeheun Jung*, **Yeajin Lee***, ChangHae Jung, Donghun Lee

ICML 2025 Workshop on Machine Learning for Audio

4. Dynamic Spatial Audio Generation Via Dual Condition Diffusion   In Progress

Jaehyuk Lee*, **Yeajin Lee***, Dayeon Shin, Jaeheun Jung, Donghun Lee

Manuscript in preparation for Interspeech 2026

Projects

1. Analysis of factors influencing the use of the 'BAEMIN' app   12/2022

- Conducted multiple regression analysis using a survey designed based on the most frequent keywords extracted from consumer reviews in the Apple App Store and Google Play Store.
- Undergraduate's thesis

2. Analyzing the Deep Learning Model for Forecasting ETF Yields Over Period   06/2023

- Compared prediction performance of LSTM and Transformer models by defining time periods based on market trend patterns.
- Awarded 1st Prize in the DAT Capstone Project Competition of University

3. Lumbar Spine Condition Classification Model for RSNA 2024 Kaggle Contest   08/2024

- Contributed to developing a spine condition diagnosis model using MR images, consisting of a Detector and Classifier pipeline for the RSNA 2024 Kaggle competition.

4. Financial Search System for ACM-ICAIF '24 Kaggle Contest   10/2024
- Participated in developing a financial question-answering search system combining a DPR architecture with BM25, using FinQA and related datasets.

5. Fashion Jewelry Recommendation System Based on Clothing Images   12/2024
- Developed an system that detects clothing items and predicts categories using the DeepFashion2 dataset with Faster R-CNN and YOLOv5, and utilized the GPT API to infer clothing colors and match them with tagged jewelry items.

6. Empirical Study on Generative AI–Based Financial Synthetic Data   11/2025
- Generated and evaluated domestic financial tabular data using CTGAN, TVAE, and FinDiff, comparing data quality and utility across generative models.
- Master's thesis

Work Experience

Internship   01/2023 – 02/2023
Fnguide, Seoul, Republic of Korea
- Department of AI team
- Supported training of an article summarization model through structured data labeling

Extracurricular Activities

1. Exchange Student, Troy University, USA   01/2022 – 05/2022

2. HUFS data analysis academic society DAT 1th management team   03/2023 – 07/2023

3. LG Aimers   01/2024 – 02/2024

4. TA for SW education course   09/2024 – 12/2025

Certificates

- SQL Developer   14/04/2023
- TOEIC Speaking – Intermediate High   09/11/2025

Technical Skills

- Programming : Python
- Deep Learning : PyTorch
- Tools : Docker, Git, HuggingFace
- Domain / Tasks :
  - Generative AI (Image, Audio, Tabular Data)
  - Computer Vision (Classification, Detection)
  - Model Compression (Pruning for CNN and Transformer-based models)