Minsuh Joo

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in LinkedIn | ⌂ Github | ⊕ Tech Blog

Seoul, South Korea

EXPERIENCE

• **Language & Representation Modeling Lab** *June 2024 - Aug. 2025*
Research Intern Ewha W. University

• **Euron: Deep Learning Club** *Mar. 2024 - Aug. 2024*
Member Ewha W. University
  ◦ Participate to a deep learning study group during the semester.
  ◦ Conducted a natural language processing (NLP) project during the summer break.

• **KanghwaSisters: Reinforcement Learning Club** *Mar. 2024 - July 2024*
Member Ewha W. University
  ◦ Participate to a RL study group during the semester.
  ◦ Implemented project using Deep Q-Network (DQN) during the summer break.

• **Department of Artificial Intelligence Student Council** *Mar. 2023 - Dec. 2024*
Planning Committee Member Ewha W. University
  ◦ Organized academic and social events for AI majors, including orientation and school festival.

EDUCATION

• **Ewha Womans University** *Mar. 2023 - Mar. 2027*
Bachelor's degree Seoul, South Korea
  ◦ GPA: 4.29/4.3

PROJECTS

• **Minesweeper Implementation using Deep Q-Network (DQN)** *May 2024 - July 2024*
Tools: python, pytorch, numpy, pandas [⌂]
  ◦ Implemented most of the game environment entirely from scratch using functions.
  ◦ Significantly improved win rate and cumulative score through effective normalization.
  ◦ Designed a concrete and fine-grained reward system tailored to the Minesweeper environment.
  ◦ Achieved a training win rate of 65% and a test rate of 56%.

• **School Announcements Classification Task** *June 2024 - Aug. 2024*
Tools: python, pytorch, numpy, pandas, beautifulsoup [⌂]
  ◦ Designed a text classification task to categorize announcements relevant to students' careers, such as scholarships, extracurricular activities, and employment.
  ◦ Crawled approximately 10k texts entries from the web and manually labeled them to construct a custom dataset.
  ◦ Fine-tuned Multilingual BERT and KLUE-BERT models, achieving over 0.9 both accuracy and F1 score.

• **Bank Deposit Subscription Classification Task** *Apr. 2024 - June 2024*
Tools: python, pytorch, numpy, pandas, scikit-learn [⌂]
  ◦ Worked on a binary classification task with a highly imbalanced dataset.
  ◦ Applied various machine learning techniques such as oversampling (SMOTE), Bayesian optimization, and K-Nearest Neighbors, using frameworks like LGBMClassifier.
  ◦ Performed multiple approaches to find the optimal performance, including standardization, PCA, and stepwise method.

PUBLICATIONS

[W.1] **Minsuh Joo**, et al. (2025). Cleanse: Uncertainty Estimation Approach Using Clustering-based Semantic Consistency in LLMs. In *GEM2 Workshop at ACL 2025*

[B.1] Yoonseo Chung , Jeonghyun Kim , MiYeon Kim , **Minsuh Joo**, Hyunsoo Cho (2025). **Foundations of LLMs and Financial Applications**. Publisher: *Finance and Large Language Models, Springer Nature*, ISBN: 978-981-96-5832-9.

SKILLS

- **Programming Languages:** Python, C
- **Database Systems:** SQL
- **Data Science & Machine Learning:** Pytorch, HuggingFace
- **Mathematical & Statistical Tools:** Calculus, Linear Algebra
- **Other Tools & Technologies:** LaTeX

HONORS AND AWARDS

- **National Science and Engineering Scholarship** — 2025
  Korea Student Aid Foundation (KOSAF) [🌐]
- **Top Student in Artificial Intelligence Major** — 2025
  Ewha W. University
- **Undergraduate Research Opportunities Program (UROP)** — 2024
  Ewha W. University
- **Second Highest GPA Student of the College** — 2024
  Ewha W. University
- **Top Student of the College** — 2024
  Ewha W. University