

# Minsuh Joo

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 LinkedIn |  GitHub |  Tech Blog

Seoul, South Korea

## EXPERIENCE

### • Language & Representation Modeling Lab

*Research Intern*

- Hallucination Detection, Decoding Strategy

June 2024 - Aug. 2025

Ewha Womans University

### • Prometheus: AI Club

*Team Member*

Sep. 2025 - Present

### • Euron: Deep Learning Club

*Team Member*

Mar. 2024 - Aug. 2024

Ewha Womans University

- Participated in a deep learning study group during the semester.
- Conducted a natural language processing (NLP) project during the summer break.

### • KanghwaSisters: Reinforcement Learning Club

*Team Member*

Mar. 2024 - July 2024

Ewha Womans University

- Participated in an RL study group during the semester.

- Implemented project using Deep Q-Network (DQN) during the summer break.

### • Department of Artificial Intelligence Student Council

*Planning Committee Member*

Mar. 2023 - Dec. 2024

Ewha Womans University

- Organized academic and social events for AI majors, including orientation and school festival.

## EDUCATION

### • Ewha Womans University

*B.S. in Artificial Intelligence*

Mar. 2023 - Mar. 2027

Seoul, South Korea

- GPA: 4.29/4.3

## PROJECTS

### • Minesweeper Implementation using Deep Q-Network (DQN)

*Tools: Python, PyTorch, NumPy, pandas, matplotlib*

May 2024 - July 2024



- 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, scikit-learn, BeautifulSoup, matplotlib*
- Designed a text classification task to categorize announcements relevant to students' careers, such as scholarships, extracurricular activities, and employment.
  - Crawled approximately 10,000 text 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, NumPy, pandas, scikit-learn, matplotlib*
- 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.
  - Explored multiple approaches to optimize performance, including standardization, PCA, and stepwise method.

## PUBLICATIONS

W=WORKSHOP, B=BOOK

- [W.1] Minsuh Joo, Hyunsoo Cho. (2025). **Cleanse: Uncertainty Estimation Approach Using Clustering-based Semantic Consistency in LLMs**. In *Proceedings of the GEM Workshop at ACL 2025*.
- [B.1] Yoonseo Chung, Jeonghyun Kim, MiYeon Kim, Minsuh Joo, Hyunsoo Cho. (2025). **Foundations of LLMs and Financial Applications**. *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

• <b>National Science and Engineering Scholarship</b> <i>Korea Student Aid Foundation (KOSAF)</i>	2025
• <b>Top Student in Artificial Intelligence Major</b> <i>Ewha Womans University</i>	2025
• <b>Undergraduate Research Opportunities Program (UROP)</b> <i>Ewha Womans University</i>	2024
• <b>Second Highest GPA Student of the College</b> <i>Ewha Womans University</i>	2024
• <b>Top Student of the College</b> <i>Ewha Womans University</i>	2024