

Jaeha Yoon

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## EDUCATION

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### Sejong University

*B.Eng. in Artificial Intelligence (Expected Feb. 2027)*

Gwangjin, S. Korea

Mar. 2021 – Feb. 2027

- Relevant Modules: Machine Learning, Deep Learning, Image Processing, Natural Language Processing, Computer Structure, Digital Signal Processing (in progress)
- GPA: 4.35/4.5

## RESEARCH EXPERIENCE

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### Pattern Recognition & Machine Learning Lab

*Undergraduate Researcher, Advisor: Changjae Chun*

Sejong University

Jan. 2024 – Present

- Conducting research on improving accuracy prediction of protein–protein docking models using Explainable AI (XAI) and ensemble models
- First-author manuscript in preparation

### Gachon X Sejong University Joint Academic Conference

*Undergraduate Researcher, Advisor: Haemin Cho*

Gachon University

Jul. – Aug. 2025

- Conducted independent research on Comparative Analysis of Music Embedding Quality under Different Segmentation and Aggregation Strategies
- Evaluated transformer-based and pooling-based aggregation strategies on the MARBLE benchmark using the MuQ embedding backbone, analyzing trade-offs between performance and efficiency
- Authored an undergraduate research paper on *Comparative Analysis of Music Embedding Quality under Different Segmentation and Aggregation Strategies*

### Generative Artificial Intelligence Lab

*Undergraduate Research Assistant, Advisor: Hyewon Jang*

Sejong University

Jul. – Aug. 2024

- Participated in the NRF-funded project *“Research in STEM Education Policy in the Era of Post-Artificial Intelligence”*
- Assisted in experiments for the study *“Less is more: A multimodal exploration of how limited AI shapes team physics problem solving”*
- Conducted data collection and supported multimodal analysis (Gaze Estimation, Pose Detection) for collaboration research
- Analyzed participant interaction using computer vision techniques to study the impact of limited AI on team problem solving

## EXTRACURRICULAR ACTIVITIES

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### **KT Community Problem-Solving Project**

*Project Developer*

**KT & Jongno-gu Office**

**Jul. – Aug. 2025**

- Developed the official notification chatbot for Jongno-gu Office to send alerts on public assemblies.
- Developed a pipeline to automatically extract traffic control information by crawling bus route data and leveraging a Large Language Model (LLM) for parsing
- Built a notification service API to provide real-time alerts on traffic disruptions

### **ESCAPER (University Central Jiu-Jitsu Club)**

*President*

**Sejong University**

**Sep. 2024 – Present**

- Served as President of the Sejong University Jiu-Jitsu Club, organized joint training with Konkuk University, and established a partnership with Flame Stone Jiu-Jitsu

### **AI Malpyeong**

*Everyday Conversation Summarization Competition*

**National Institute of Korean Language**

**Jul. – Aug. 2024**

- Fine-tuned LLM using QLoRA and few-shot prompt tuning to summarize daily conversations

### **Republic of Korea Army – Transport Battalion**

*Driver, Sergeant*

**Gangwon-do, S. Korea**

**Mar. 2022 – Sep. 2023**

- Completed an AI Education Program (hosted by Elice Inc.), including projects on sensor-based fault classification and time-series analysis of historical WWII data.

### **Career Lecture**

*Guest Lecturer*

**Bundang Jungang High School**

**Jun. 2021**

- Delivered a one-day lecture on Artificial Intelligence for high school students as part of the "Career Recipe" program
- Introduced the fundamentals of AI and shared career insights in the field

### **Student Council**

*Member of Planning Department*

**Sejong University**

**Mar. – Jul. 2021**

- Contributed to establishing the foundation of the newly created AI Department Student Council
- Planned and organized student events and academic activities to strengthen the department community

## HONORS & AWARDS

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<b>KT Digital Talent Scholarship</b>	<b>Mar. 2025 – Present</b>
<ul style="list-style-type: none"><li>Selected as a recipient for a competitive scholarship program supporting outstanding students in ICT and AI fields</li></ul>	
<b>KT Digital Talent Award – “D-Injae’s Pick”</b>	<b>Aug. 2025</b>
<ul style="list-style-type: none"><li>Popular Choice for KT Community Problem-Solving Project</li></ul>	
<b>Bronze Prize, 2025 AI Challenge</b>	<b>Jun. 2025</b>
<ul style="list-style-type: none"><li>Sejong University</li></ul>	
<b>Academic Excellence Scholarship, First Semester 2025</b>	<b>Jun. 2025</b>
<ul style="list-style-type: none"><li>Ranked x in Academic Standing</li></ul>	
<b>Grand Prize, 2024 English Speaking &amp; Presentation Contest</b>	<b>Dec. 2024</b>
<ul style="list-style-type: none"><li>Sejong University</li></ul>	
<b>Encouragement Award, 2024 College Academic Festival</b>	<b>Dec. 2024</b>
<ul style="list-style-type: none"><li>Sejong University, Software Convergence College, Planning Track</li></ul>	
<b>Bronze Prize, 2024 AI Challenge</b>	<b>Nov. 2024</b>
<ul style="list-style-type: none"><li>Sejong University</li></ul>	
<b>Academic Excellence Scholarship, First Semester 2024</b>	<b>Jun. 2024</b>
<ul style="list-style-type: none"><li>Ranked 3rd in Academic Standing</li></ul>	
<b>Encouragement Award, 10th Sejong University SW·AI Hackathon</b>	<b>Oct. 2021</b>