"The only way to do great work is to love what you do."

Education

Chungbuk National University

Cheongju, S.Korea

Mar. 2022 - Present

B.S. IN SOFTWARE ENGINEERING, CONCENTRATION IN ARTIFICIAL INTELLIGENCE

• Total GPA of 4.11 / 4.5, Major GPA of 4.21 / 4.5 (Credits taken: 133 / 140)

Publications

A Lightweight Safety Helmet Compliance Detection via Multimodal Fusion

Cheongju, S.Korea

AAAI-26 STUDENT ABSTRACT AND POSTER PROGRAM

May. 2025 - Sep. 2025

 Proposed a lightweight YOLO11-pose fusion model that enhances helmet compliance detection with higher accuracy and fewer false alarms in real time.

Internships

Data Analytics Lab Cheongju, S.Korea

Undergraduate Researcher

Apr. 2025 - Present

• Conducted research on 'A Lightweight Safety Helmet Compliance Detection via Multimodal Fusion'.

Project Experience _

Sonus: Identify and extract instruments from orchestral recordings

Cheongju, S.Korea

TEAM MEMBER

Jun. 2025 - Present

- · Developed a AI-based system for extracting individual orchestra instrument sounds to support solo practice and music education.
- · Used Mamba models to achieve better instrument classification results than previous approaches.

Finflow: Managing equity portfolio risk with reinforcement learning

Cheongju, S.Korea May. 2025 - Present

TEAM LEADER

• Capstone design project for graduation

· Developed a reinforcement learning model for portfolio rebalancing that mimics immune system responses.

Dibidibidip: AI model for meat nutrition analysis

Cheongju, S.Korea

TEAM LEADER

Sep. 2024 - Dec. 2024

- Developed an AI model to analyze nutritional facts from a photo of meat with a hand using a segmentation model and depth estimation model.
- Collected and labeled images yourself for your segmentation model.

Honors & Awards

AWARDS

2025	Excellence Academic Achievement Award (Spring), College of Electrical and Computer Engineering	Chungbuk Univ.
2025	3rd place , Dacon Basic in predicting thyroid cancer	Dacon
2024	Best Academic Achievement Award (Fall), College of Electrical and Computer Engineering	Chungbuk Univ.
2024	Excellence Academic Achievement Award (Spring), College of Electrical and Computer Engineering	Chungbuk Univ.
2024	Encouragement Award, 2nd Solve-up® Programming Contest	Chungbuk Univ.
2023	Encouragement Award, 2nd Solve-up® Programming Contest	Chungbuk Univ.

Honors

2025	Semester High Honors , Awarded to students with high achievements throughout the semester	Chungbuk Univ.
2024	Semester High Honors, Awarded to students with high achievements throughout the semester	Chungbuk Univ.
2023	Semester High Honors, Awarded to students with high achievements throughout the semester	Chungbuk Univ.

Program Committees _____

2024 **Certificated,** LG Aimers, 6th Cohort

S.Korea

Others_____

English Proficiency

• 2025.08 - TEPS 378