

Woorim Shin

STUDENT • EWHA WOMANS UNIVERSITY

Department of Computer Science and Engineering, Seoul, Republic of Korea

wrim0923@gmail.com | LinkedIn | GitHub

Education

Ewha Womans University

Undergraduate student in Computer Science and Engineering

Seoul, South Korea

Mar.2023 - Current

Work Experiences

SDIJ Forest team

Project Leader - Korean CSAT Private Education Service Planning & Development

Apr, 2023 - May, 2025

Hiconsy Intern

AI R&D Intern - Korean Educational ASR System & MLOps Pipeline Development

Jun, 2023 - Current

Projects

AI Subtitle Generation Model for Korean Educational Content

End-to-end Korean ASR system development with advanced ML pipeline

Jun, 2025 - Current

- Fine-tuned Whisper Large-v3 for Korean educational content with **275% segmentation improvement**
- Built complete ML pipeline with LoRA, multi-GPU training, and RAG post-processing system

Educational Q&A Analysis System

GPT-4 fine-tuning for Korean literature and math question classification

Jan, 2025

- Solved "impossible" Korean literature classification using GPT-4 fine-tuning with **80% accuracy**
- Built real-time Streamlit dashboard for educational question analysis and categorization

Student Sentiment & Text Analysis Platform

Korean text mining platform for educational feedback analysis

May, 2024

- Korean text mining platform for student feedback with network visualization analysis
- Automated sentiment categorization system for educational content improvement insights

Large-scale Educational Forum Crawling System

Multi-platform web scraping with Korean morphological analysis

Sep, 2023 - Dec, 2023

- Large-scale educational forum crawling system with Korean morphological analysis
- Robust multi-platform data extraction with automated processing and visualization pipelines

Research Interests

Parameter-Efficient Fine-Tuning (PEFT) Optimization

Automated configuration search for optimal PEFT architectures, inspired by recent AutoPEFT research and my experience with LoRA parameter tuning for Korean ASR systems

Multi-Objective Optimization in Distributed Training

Hardware-aware PEFT deployment strategies and multi-GPU resource allocation optimization, building on my hands-on experience with DeepSpeed and distributed Whisper fine-tuning

Universal Domain Adaptation & Multi-Task Fine-Tuning

Context-aware PEFT methods for seamless cross-domain deployment, inspired by challenges in adapting general models to specialized domains like education, healthcare, religion, and law

Efficient ML Systems for Real-world Applications

End-to-end ML pipeline optimization from data preprocessing to model deployment, with focus on bridging the gap between research and production systems

Relevant Coursework

AI/ML & Data Science

Machine Learning, Reinforcement Learning, Natural Language Processing, Data Science, Open SW Project (Computer Vision & Deep Learning)

Mathematical Foundations

Calculus, Linear Algebra I, Engineering Mathematics, Discrete Mathematics

Computer Science Core

Data Structures, Computer Algorithms, Database Systems, Operating Systems, Computer Architecture

Programming & Software Engineering

C Programming, Java Programming, Object-Oriented Programming, System Software & Practice