

Woorim Shin

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Education

Ewha Womans University

Undergraduate student in Computer Science and Engineering

Seoul, South Korea

Mar.2023 - Current

- Relevant Coursework: Data Structures, Algorithms, Database Systems

Projects

Korean Educational ASR System

Jan, 2025

Speech recognition system fine-tuned for Korean educational content

- Fine-tuned OpenAI Whisper Large-v3 with LoRA for Korean lecture transcription
- Implemented RAG pipeline with **275% improvement** in segmentation precision
- Built custom Korean tokenizer achieving **55.6% efficiency improvement**
- Technologies: PyTorch, Transformers, PEFT, DeepSpeed, Korean NLP

Educational Q&A Analysis System

Jan, 2025

Interactive question classification system with GPT-4 fine-tuning

- Developed 8-category question classification using fine-tuned GPT-4
- Built real-time Streamlit dashboard for Korean text analysis
- Implemented sentiment analysis and word frequency visualization
- Technologies: OpenAI API, Streamlit, KoNLP, Plotly, Pandas

Student Sentiment & Text Analysis Platform

May, 2024

Korean sentiment analysis system for educational feedback

- Built comprehensive Korean text mining pipeline for student feedback analysis
- Created word co-occurrence networks and interactive visualizations
- Implemented automated categorization system for student concerns
- Technologies: Python, KoNLPy, NetworkX, Matplotlib, Interactive HTML

Learning Principles Analysis System

Apr, 2024

Automated data collection and analysis for educational research

- Developed automated screenshot and data collection system using Selenium
- Built Streamlit web application for real-time educational data analysis
- Integrated Google Sheets API for automated report generation

- Technologies: Selenium WebDriver, Streamlit, Google Sheets API, OpenCV

Educational Forum Crawling System

Sep, 2023 - Dec, 2023

Large-scale web scraping and Korean text mining system

- Built robust multi-platform web crawling system for educational forums
- Implemented Korean morphological analysis and automated data processing
- Created comprehensive text analysis toolkit with visualization
- Technologies: Selenium, BeautifulSoup, KoNLPy, Pandas, Excel automation

TA Administration Automation

Sep, 2023

Automated teaching assistant question management system

- Automated Q&A data collection from educational platforms using web scraping
- Integrated with Google Cloud Platform for data processing and storage
- Built automated Excel report generation with error handling
- Technologies: Selenium, Google Sheets API, GCP, Python automation

Content Analysis & Classification System

Jul, 2024

Multi-subject educational content categorization system

- Developed automated classification system for 10+ academic subjects
- Built data processing pipeline for student review and feedback analysis
- Created comprehensive analytics dashboard for educational insights
- Technologies: Python, Pandas, Data classification, Educational analytics

Technical Skills

Programming Languages

Python, Java, C++, JavaScript, TypeScript

Frameworks & Technologies

PyTorch, TensorFlow, Streamlit, OpenAI API, Korean NLP

Specializations

Web Scraping, Data Analysis, Machine Learning, Cloud Computing