

SUNG JAE HYUK

E-mail ◊ GitHub ◊ Website 1 ◊ Website 2

OBJECTIVE

My objective is to use the computer science knowledge (especially basic machine learning and deep learning) and mathematical knowledge (statistics, optimization theory, theoretical machine (deep) learning theory) that I have accumulated during my undergraduate studies to do the NLP research that I have always wanted to do. I am interested in researching mathematical problem-solving models and wish to passionately carry out my desired research based on the latest trends identified through my undergraduate studies and paper reviews.

EDUCATION

Korea University 2019 - 2024
1st major: Computer Science
2nd major: Mathematics
GPA: 4.24/4.5

Busan Il Science High School 2016 - 2018

RESEARCH EXPERIENCE

AI Grand Challenge September 2022 - December 2022
Internship Project

- A project completed as an undergraduate researcher at the AIML-K.
- Dealing with question answering problem in document.
- To obtain a dataset for training, crawl the government document at PRISM using ajax
- For more scientific data, crawl not only the above documents, but also NKIS documents.
- Devise a method to automatically convert from Type 2 (finding the answer in the document) to Type 1, where the relevant paragraph in the document is found.

AI Grand Challenge July 2023 - August 2023
Internship Project

- A project done as an undergraduate researcher at the AIML-K
- Dealing with question generation problem in table.
- Since a lack of numerical tabular data, crawl the tabular data in KOSIS.
- Make sample problems (around 100 items) and fine-tune the LLM to generate the problem.

PUBLICATIONS (* EQUAL CONTRIBUTIONS)

Is Peeled Apple Still Red? Evaluating LLM's Ability to Understand and Generate Conceptual Combination with Property Type Dec 2024
Seokwon Song, Taehyun Lee*, Jaewoo Ahn, Jae Hyuk Sung, and Gunhee Kim*
NAACL 2025

AWARDS

Korea Olympiad of Informatics Bronze Award	2017
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E-ICON World contest Best Creativity Award	2018
Algorithm contest, Korea University 3 rd prize, Freshmen Department	2019
AI Bookhaton, Sungkyunkwan University Participant Award	2022
AI Grand Challenge 7 th prize Participate as an undergraduate research student in AIML-K	2022
AI Grand Challenge 2 nd prize Participate as an undergraduate research student in AIML-K	2023

SKILLS

Programming Language

C/C++(Intermediate), Python(Intermediate), Javascript(Junior)

Libraries/Frameworks

Pandas, Numpy, Pytorch, Huggingface, algorithm(C/C++)

Other skills

Probability theory, Optimization theory, Machine/Deep Learning theory