

HYUNGJIN AHN

An enthusiastic Researcher, Developer

About me

I'm a senior student at Chungnam National University, majoring in computer science and engineering. Currently, I'm interested in Natural Language Processing, Reinforcement Learning, and Flutter.

I'm a researcher/developer who likes to understand everything by turning it into an easy concept.

Areas of specialization

Flutter & Firebase • NLP

Interests

- NLP (esp. LLM, quantization)
- RL
- Flutter



EXPERIENCES

12/2022
~ Current

Undergraduate NLP Researcher

UNDERGRADUATE · ISoft Lab @Chungnam Nat'l Univ.
Research natural language processing especially about Large Language Models (LLM). **Authored 2 papers about LLMs**. Currently advancing research on the quantization of LLMs, aimed at optimizing Korean language model efficiency and scalability.

ISoft

05/2022
~ Current

Mobile application developer

FREELANCE · 4th place @Gunpo-si, Gyeonggi-do
Develop and maintain the **mobile application "upciety"** using Flutter. Manage deployment process on both "App Store" and "Google Play". Also, develop back-end logics using Firebase Functions, Firestore, and Firebase Storage.

4TH PLACE

07/2023
~ 11/2023

Mobile development Teaching Assistant

TEACHING ASSISTANT · SW academy @Chungnam Nat'l Univ.
Guided the progress of the mobile development projects. Provided lectures and Q&A on SwiftUI, and Flutter.



DEGREES

03/2019
~ Current

Computer Science

BS · Chungnam Nat'l Univ.
GPA: 4.39/4.5 (major GPA: 4.5/4.5)

SOFTWARE SKILLS

Python, Pytorch

Flutter, Firebase

OpenAI Gym

Stable-Baselines3

ROS2

C++, OCaml, Rust

HTML, CSS, JS

PUBLICATIONS

12/2023

Performance Analysis of Few-Shot Example Techniques Utilizing Similarity in Classification Problems Based on Large Language Models

KSC 2023 · Korea Software Congress 2023 · Undergraduate Poster Session
Hyungjin Ahn, Taewook Hwang, Sangkeun Jung

10/2023

Utilizing Large Language Models for Non-trained Binary Sentiment Classification

HCLT 2023 · The 35th Annual Conference on Human & Cognitive Language Technology · Oral Session
Hyungjin Ahn, Taewook Hwang, Sangkeun Jung

AWARDS

08/2023
~ Current

National Scholarship (Science and Engineering) - Ministry of Science and ICT
↔ Won a **full scholarship**

PROJECTS

03/2024
~ Current

Training Omok (Gomoku) AI

REINFORCEMENT LEARNING SIDE PROJECT · GitHub 

Description: Training Omok AI with **OpenAI Gym** and **Stable-Baselines3**. This project is built on OpenAI Gym and Stable-Baselines3, providing a framework for two agents to compete and learn from each other, enhancing their strategies over time.

My Role: Developed the simple Omok (Gomoku) game. Implemented the Omok environment using OpenAI Gym. Developed the feature extractor utilizing CNN. Currently training the AI agents using Stable-Baselines3, adjusting the training settings.



05/2022
~ Current

Mobile application "upciety"

FREELANCE DEVELOPER · 4th place 

Description: The plastic collected from our company is reborn as a plastic sheet and is used as a valuable resource. By classifying and submitting plastics by material, you will receive a cash-like compensation via **"upciety" application**.

My Role: Developed the mobile application using Flutter. Managed deployment process on both "App Store" and "Google Play". Developed back-end logics using Firebase Functions and Firestore. Designed and programmed the convenient application management system for admin users. **Developed the whole tutorial system**, successfully provided user experience for over 5,000 users.



09/2023
~ 10/2023

Open source contribution

INDIVIDUAL CONTRIBUTOR ·  FastChat 

Description: FastChat is an open platform for training, serving, and evaluating chatbots based on large language models. I had a lot of experience using open sources before, but I had never actually participated in discovering and improving the inconveniences. Through this open source contribution project, I had the **experience of participating in the open source community and playing an active role as a member**.

My Role: Added a feature that allows users to use custom conversation template while using the chatbot. Added support for the additional model (stable-vicuna) to the FastChat platform.



02/2023
~ 03/2023

Jeju dialect translator

LLM FINETUNING SIDE PROJECT ·  GitHub 

Description: In Korea, the Jeju dialect is considered one of the dialects that are difficult to understand. After learning about LLM, I did a fun project to finetune a LLM that converts the Korean standard language into the Jeju dialect.

My Role: Developed the translator using Pytorch and Huggingface's transformers. **Finetuned the LLM** using the Korean standard language and the Jeju dialect.



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