

Dongmin Choi

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Summary

I am a graduate student in Data Science at Seoul National University, researching **value alignment in LLMs** under Professor Yohan Jo. I believe aligning language models with specific value systems is a crucial first step toward building personalized LMs. I am also interested in improving reasoning capabilities in LLMs, particularly in mathematical domains.

Education

Seoul National University, M.S. in Data Science / Advisor: Prof. Yohan Jo	Mar 2024 – Present
Seoul National University, B.S. in Mathematics Education	Mar 2017 – Feb 2024

Experience

Undergraduate Intern , Institute of Convergence Technology at Korea Telecom, AI Service Planning Department – Korea	July 2023 – Aug 2023
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- Developed a voice lecture summary service utilizing KT E2E STT and GPT-3.5 technologies

Publications

Value Portrait: Assessing Language Models' Values through Psychometrically and Ecologically Valid Items	2025
Jongwook Han*, <i>Dongmin Choi</i> *, Woojung Song*, Eun-Ju Lee, Yohan Jo	
[ACL] Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics, 2025, *Equal Contributions	
PVP: An Image Dataset for Personalized Visual Persuasion with Persuasiveness Ratings, Persuasion Strategies, and Viewer Characteristics	2025
Junseo Kim, Jongwook Han, <i>Dongmin Choi</i> , Jongwook Yoon, Eun-Ju Lee, Yohan Jo	
[ACL] Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics, 2025	

Preprints

Established Psychometric vs. Ecologically Valid Questionnaires: Rethinking Psychological Assessments in Large Language Models	2025
<i>Dongmin Choi</i> , Woojung Song, Jongwook Han, Eun-Ju Lee, Yohan Jo	
Under Review at TACL	
Future Policy Aware Preference Learning for Mathematical Reasoning	2025
Minjae Oh, Yunho Choi, <i>Dongmin Choi</i> , Yohan Jo	
Under Review at ICLR 2026	

Projects

MCP-based Financial Q&A System	Nov 2024
<ul style="list-style-type: none">Led idea development and overall project managementImplemented logic for selecting and invoking appropriate tools based on user queries using MCP and ReAct promptingBuilt web demo using StreamlitTools Used: MCP, Streamlit, LangChain, Python	
Emotional Support Model with Targeted Data Augmentation	Oct 2024
<ul style="list-style-type: none">Implemented pipeline for epoch-wise performance evaluation by topic and selective synthetic data augmentation	

- Achieved comparable or superior performance using only 17% of synthetic data compared to full dataset usage

Voice Lecture Summary Service

July 2023 – Aug 2023

- Developed a service that summarizes lecture videos and generates slide notes after splitting content
- Implemented web frontend and integrated with KT E2E STT technology
- Utilized GPT prompt engineering to generate summaries, titles, correct STT errors, and perform post-processing
- Created training data for fine-tuning KT Mi:dm (LLM) for summarization tasks
- Tools Used: React, langchain

PDF Summary Service

July 2023

- Developed a web service that summarizes uploaded PDF documents after splitting them into appropriate chunks
- Deployed service using Vercel
- Tools Used: React, langchain, Vercel

KakaoTalk Open Chat Summary Service (YOUM)

Feb 2023

- Developed a web service that summarizes KakaoTalk open chat conversations
- Researched and developed Dialogue Topic Segmentator (DTS) using unsupervised learning to address the lack of Korean datasets
- Built backend server using FastAPI
- Implemented model packing and server using BentoML
- Tools Used: FastAPI, BentoML