

Ki Yong Jung

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Research Interests

Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Agentic AI, and Multimodal Learning for Document Understanding

Educations

Sungkyunkwan University Mar 2023 – Present
BS in Department of Computer Science and Engineering

Experiences

Undergraduate Research Assistant Mar 2025 – Present
CSI Agent Group, Sungkyunkwan University, Prof. Honguk Woo Suwon, South Korea

AI Application Developer Apr 2024 – Present
KIOST (Korea Institute of Ocean Science and Technology) Busan, South Korea

- Developed a **RAG-based chatbot** with maritime knowledge and an **Agentic Pipeline** using **LangGraph** for Text-to-SQL, code execution, data visualization, etc.

AI Research Intern Apr 2024 – Dec 2024
VAIV & Sungkyunkwan University (Industry-Academia Collaboration) Suwon, South Korea

- Developed **ChartBrain.AI**, enhancing chart understanding accuracy (RMS metric) by **26.04%p** using the self-constructed **32K Weakness-Focused Chart Dataset**.

Publications

Tabular-TX: Theme-Explanation Structure-based Table Summarization via In-Context Learning Oct 2024

TaeYoon Kwack*, Jisoo Kim*, Ki Yong Jung, DongGeon Lee, Heesun Park

Awards

2024 SW-centered University Excellence Awards Dec 2024
◦ **MSIT Award, 1st Place** — ChartBrain.AI

The 2024 Joint Conference on Human and Cognitive Language Technology, Korean Association for Corpus Linguistics (HCLT-KACL 2024) Oct 2024
◦ **2nd Place** — Tabular-TX: Theme-Explanation Structure-based Table Summarization via In-Context Learning

2023 AI Hub Open Data Idea Contest (1st Round) Sep 2023
◦ **3rd Place** — Diff-SVC Model-based Personal Vocal Training Application

Technologies

Languages: Python, C++, C

Framework & Libraries: LangChain, LangGraph, Dify