

# Ki Yong Jung

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## Research Interests

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

## Educations

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**Sungkyunkwan University**

*Mar 2023 – Present*

*BS in Department of Computer Science and Engineering*

## Experiences

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**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

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**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

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**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

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**Languages:** Python, C++, C

**Framework & Libraries:** LangChain, LangGraph, Dify