

# DongGeon Lee

M.S. student at POSTECH  
Mail: [dg.lee@postech.ac.kr](mailto:dg.lee@postech.ac.kr)  
Web: <https://donggeon.github.io>

## RESEARCH INTERESTS

---

Data-centric Natural Language Processing, Domain adaptation for Large Language Models, Improvement & Evaluation of Retrieval-augmented Language Models

## EDUCATIONS

---

**M.S. student in Artificial Intelligence** Feb 2024 - Present  
*POSTECH (Pohang University of Science and Technology)* Pohang, South Korea

- Advisor: Prof. Hwanjo Yu

**B.S. in Information and Communication Engineering** Mar 2018 - Feb 2024  
*Inha University* Incheon, South Korea

- Honors : *Research Scholarship for Undergrad. Researcher, Top Engineering Student Award*

## RESEARCH EXPERIENCES

---

**Graduate Research Assistant** Feb 2024 - Present  
*Data Intelligence Lab, POSTECH* Pohang, South Korea

- Research on building a robust RAG (Retrieval-Augmented Generation).
- Research on domain-incremental learning in LLMs (Large Language Models).
- Advisor: Prof. Hwanjo Yu

**Visiting Researcher** Dec 2023 - Jan 2024  
*HyperEZ Inc.* Seongnam, South Korea

- Research on the use of RAG (Retrieval-Augmented Generation) in 3D VR platforms.
- Host: Sangseok Youn

**Undergraduate Research Assistant** Nov 2022 - Nov 2023  
*Data Intelligence Lab, Inha University* Incheon, South Korea

- Research on domain adaptation of language models in the field of aviation.
- Advisor: Prof. Wonik Choi

**Undergraduate Research Assistant** Jul 2021 - Jun 2023  
*Nursing Informatics Lab, Inha University* Incheon, South Korea

- Research on domain adaptation of language models in the medical field.
- Advisor: Prof. Insook Cho

## CONFERENCES

---

- [1] Insook Cho, EunJu Lee, and **DongGeon Lee**. Effects of Language Differences on Inpatient Fall Detection Using Deep Learning. *Proceedings of the 19th World Congress on Medical and Health Informatics*, 2024.
- [2] **DongGeon Lee**, EunJu Lee, and Insook Cho. Bridging the Reporting Gap of Inpatient Falls to Improve Safety Practices Using Deep-Learning-Based Language Models and Multisite Data. *AMIA 2023 Clinical Informatics Conference*, 2023.
- [3] Changhun Koo\*, Yoonjoo Jung\*, and **DongGeon Lee\***. Through deep learning-based video processing, Design and implementation of Smart Port Parking Information System. In *Proceedings of the Annual Conference of KIPS 2021*, 2021. (\*: Co-First Author)

## UNDER REVIEW

---

- [1] Question Types Matter: An Analysis of Question-Answering Performance in Retrieval-Augmented Generation Across Diverse Question Types
- [2] TXG: Thematic and eXplanatory Generation Pipeline for Table Understanding
- [3] Enhancing Adverse Event Reporting with AI: Using Large Language Models to Detect Inpatient Falls

## TECHNICAL SKILLS

---

- **Programming Languages:** Python, Shell Script, (C++, C, JavaScript)
- **Frameworks and Libraries:** PyTorch, transformers, (Keras, TensorFlow)
- **Systems and Tools:** Git, Linux, L<sup>A</sup>T<sub>E</sub>X, (MySQL)