

# DongGeon Lee

M.S. student at POSTECH

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## RESEARCH INTERESTS

Data-centric natural language processing, Domain adaptation for large language models (LLMs), Evaluation of LLMs, Retrieval-Augmented Generation for LLMs

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## EDUCATIONS

<b>M.S. student in Artificial Intelligence</b>	February 2024 - February 2026
<i>POSTECH (Pohang University of Science and Technology)</i>	<i>Pohang, South Korea</i>

- Advisor: Prof. Hwanjo Yu

<b>B.S. in Information and Communication Engineering</b>	March 2018 - February 2024
<i>Inha University</i>	<i>Incheon, South Korea</i>

- Received Awards & Scholarships: *Research Scholarship for Undergraduate Researcher, Top Engineering Student Award*

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## RESEARCH EXPERIENCES

<b>Graduate Research Assistant</b>	January 2024 - Present
<i>Data Intelligence Laboratory, POSTECH</i>	<i>Pohang, South Korea</i>

- Advisor: Prof. Hwanjo Yu

<b>Visiting Researcher</b>	December 2023 - January 2024
<i>HyperEZ Inc.</i>	<i>Seongnam, South Korea</i>

- Host: Sangseok Youn

<b>Undergraduate Research Assistant</b>	November 2022 - November 2023
<i>Data Intelligence Laboratory, Inha University</i>	<i>Incheon, South Korea</i>

- Advisor: Prof. Wonik Choi

<b>Undergraduate Research Assistant</b>	August 2021 - June 2023
<i>Nursing Informatics Laboratory, Inha University</i>	<i>Incheon, South Korea</i>

- Advisor: Prof. Insook Cho

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## 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

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- [1] Hyunchul Park, Insook Cho, Byeong Sun Park, and **DongGeon Lee**. Enhancing Adverse Event Reporting with AI: Using Large Language Models to Detect Inpatient Falls.

## PATENT

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- [1] System for providing parking information and control method. *KR-Application No. 10-2021-0178090*, South Korea, December 2021.

## PROJECTS

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**Contribution to Transformers & LightEval Libraries** November 2023 - February 2024  
*Hugging Face* *Open-source Contribution*

- Improved PyTorch usage examples in Hugging Face **Transformers** for better readability
- Fixed typos in the main document of Hugging Face **LightEval**

**Hazard Identification and Management in Aviation** March 2023 - November 2023  
*Data Intelligence Laboratory, Inha University* *Incheon, South Korea*

- Development of a domain-specific language model for identification of causal factors in aviation safety reports

**Inpatient Fall Detection on Clinical Records** January 2022 - June 2023  
*Nursing Informatics Laboratory, Inha University* *Incheon, South Korea*

- Development of fall report detection models using BERT-based models
- Development of named entity recognition models for the automatic case reports generation

## TEACHING EXPERIENCES

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**Lecturer** March 2024 - May 2024  
*KIRO (Korea Institute of Robotics and Technology Convergence)* *Pohang, South Korea*

- Basic Python Programming

**Teaching Assistant** March 2023 - December 2023  
*Inha University* *Incheon, South Korea*

- ICE2004: Data Structure (Fall 2023)
- ICE4016: Database Capstone Design (Fall 2023)
- ICE1005: Introduction to AI Programming (Spring 2023)
- ICE3020: Algorithm Capstone Design (Spring 2023)

**Lecturer** October 2021 - May 2023  
*Jamcoding, Co., LTD* *Seoul, South Korea*

- Data Analysis and Visualization
- Programming and Algorithms - Python & C

## TECHNICAL SKILLS

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