

# DongGeon Lee

M.S. student at POSTECH  
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## RESEARCH INTERESTS

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

## EDUCATIONS

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**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 Undergraduate Researcher, Top Engineering Student Award*

## RESEARCH EXPERIENCES

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

- Advisor: Prof. Hwanjo Yu

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

- Advisor: Prof. Wonik Choi

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

- Advisor: Prof. Insook Cho

## CONFERENCES

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- [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, Dec 2021.

## PROJECTS

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**Contribution to Transformers & LightEval Libraries** Nov 2023 - Feb 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** Mar 2023 - Nov 2023  
*Data Intelligence Lab, 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** Jan 2022 - Jun 2023  
*Nursing Informatics Lab, 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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**Instructor** Mar 2024 - May 2024  
*KIRO (Korea Institute of Robotics and Technology Convergence)* *Pohang, South Korea*

- Basic Python Programming

**Teaching Assistant** Mar 2023 - Dec 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)

**Instructor** Oct 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