

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

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 Undergraduate Researcher, Top Engineering Student Award*

RESEARCH EXPERIENCES

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

- [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] 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

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

PROJECTS

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

Lecturer 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)

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

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

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C, Shell Script, JavaScript
- **Frameworks and Libraries:** PyTorch, transformers, Keras, TensorFlow, OpenCV
- **Systems and Tools:** Git, Linux, MySQL, L^AT_EX