# DongGeon Lee

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#### RESEARCH INTERESTS

Natural language processing, In-context learning in Large language models, Data-centric AI

#### **EDUCATION**

#### M.S. student in Artificial Intelligence

February 2024 - February 2026

Pohang University of Science and Technology (POSTECH)

Pohang, South Korea

• Advisor: Prof. Hwanjo Yu

# B.S. in Information and Communication Engineering Inha University

March 2018 - February 2024

Incheon, South Korea

- Relevant Courseworks: AI Applications, Signal and Systems, Database Capstone Design Algorithm Capstone Design, Data Structure, Digital Image Processing, Numerical Analysis
- Received Awards & Scholarships: Top Engineering Student Award, Research Scholarship for Undergraduate Researcher

#### RESEARCH EXPERIENCES

#### Visiting Researcher

Research Assistant

January 2024 - January 2024 Seongnam-si, South Korea

 $HyperEZ\ Inc.$ 

November 2022 - November 2023

Data Intelligence Laboratory, Inha University

Incheon, South Korea

• Advisor: Prof. Wonik Choi

#### Research Assistant

August 2021 - June 2023

Nursing Informatics Laboratory, 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)

#### **PROJECTS**

Big Data Technology for Aviation Safety Management 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

#### FallSafe: Reducing Falls with Clinical Data

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

#### PATENT

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

#### TEACHING EXPERIENCES

#### Teaching Assistant

March 2023 - December 2023

Dept. of Information and Communication Engineering, 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)

### Computer Programming Instructor (Contract)

October 2021 - May 2023

Seoul, South Korea

Jamcoding, Co., LTD

• Data Analysis and Visualization

• Programming and Algorithms - Python & C

## TECHNICAL SKILLS

- Programming Languages: Python, C++, C, Shell Script, JavaScript
- Frameworks and Libraries: PyTorch, Keras, TensorFlow, OpenCV
- Systems and Tools: Git, Linux, MySQL, LATEX

#### LANGUAGE SKILLS

#### English

- Obtained an **IH** (Intermediate High) **OPIc** grade; proficient communication on diverse subjects, in August 2023
- Obtained a 805 TOEIC score; advanced working proficiency, in February 2023