

# DongGeon Lee

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( [GitHub](#), [LinkedIn](#), [Personal Website](#) )

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## RESEARCH INTERESTS

Natural language processing, Large language models (LLMs), Data-centric AI

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## 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

March 2018 - February 2024

*Inha University*

*Incheon, South Korea*

- Relevant Courseworks: *AI Applications, Signal and Systems, Database Capstone Design Algorithm Capstone Design, Data Structure, Digital Image Processing, Numerical Analysis*
- Received Scholarships: *Research scholarship for undergraduate researchers, Scholarships for campus extracurricular activities*

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## RESEARCH EXPERIENCES

### Visiting Researcher

January 2024 - January 2024

*HyperEZ Inc.*

*Seongnam-si, South Korea*

### Research Assistant

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

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## CONFERENCES

- [1] Insook Cho, EunJu Lee, and **DongGeon Lee**. Effects of Language Differences on Inpatient Fall Detection Using Deep Learning. *MedInfo 2023: The 19th World Congress on Medical and Health Informatics*, Sydney, Australia, July 2023. (Poster)
- [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*, Chicago, United States, May 2023. (Peer Reviewed, Oral Presentation)
- [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*, Yeosu, South Korea, November 2021. (Oral Presentation, \*: Co-First Author)

## PROJECTS

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**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

**Contribution to Hugging Face Transformers Library**      November 2023  
*Open-source Contribution*      *Online*

- Improve PyTorch usage examples in Hugging Face Transformers for better readability

**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 generation of case reports
- Network analysis for drug prescribing patterns

**Intelligent Clinical Guidance System Development**      August 2021 - December 2021  
*Nursing Informatics Laboratory, Inha University*      *Incheon, South Korea*

- Topic-modeling for insightful medical data analysis

**Smart Port Traffic Control System**      April 2021 - November 2021  
*ICT Mentoring, The Federation of Korean Information Industries*      *Seoul, South Korea*

- Development of a deep learning-based system for real-time detection of parking conditions
- Development of a real-time parking lane recognition algorithm through image processing

## PATENT

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

## CERTIFICATIONS

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- [1] **Algorithms 1, 2.** *POSTECH STAR-MOOC*, September 2023 - October 2023.  
[2] **Deep Learning Course (Advanced).** *Inha Innovation Sharing University for Future Vehicle Technology*, January 2023.  
[3] **Building Transformer-Based Natural Language Processing Applications.** *NVIDIA Deep Learning Institute*, August 2022.  
[4] **Fundamentals of Deep Learning.** *NVIDIA Deep Learning Institute*, August 2022.  
[5] **Amazon Web Services (AWS) Machine Learning Course.** *Inha Innovation Sharing University for Future Vehicle Technology*, February 2022.  
[6] **Understanding Deep Learning.** *Hancom Academy*, February 2022.

## TEACHING EXPERIENCES

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### 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

*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, JavaScript, Shell Script
- **Frameworks and Libraries:** PyTorch, Keras, TensorFlow, Hugging Face, OpenCV
- **Systems and Tools:** Git, Linux, MySQL, AWS, Arduino, L<sup>A</sup>T<sub>E</sub>X

## LANGUAGE SKILLS

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### 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