

Dong-geon Lee

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

RESEARCH INTERESTS

Natural language processing, Large language model, Data-centric AI, AI applications

EDUCATION

B.S. in Information and Communication Engineering

Inha University

March 2018 - Present

Incheon, South Korea

- Expected Graduation Date: February 16, 2024
- GPA: 3.77 / 4.5 (Major GPA: 3.89 / 4.5)
- Relevant Coursework: *AI Applications, Data Structure, Algorithm Capstone Design, Probability and Statistics, Signals and Systems, Database Capstone Design*

RESEARCH EXPERIENCES

Research Assistant (Advisor: Prof. Wonik Choi)

Data Intelligence Laboratory, Inha University

November 2022 - Present

Incheon, South Korea

Research Assistant (Advisor: Prof. Insook Cho)

Nursing Informatics Laboratory, Inha University

August 2021 - June 2023

Incheon, South Korea

PROJECTS

Big Data-Driven Aviation Safety Management Technology

Data Intelligence Laboratory, Inha University

March 2023 - Present

Incheon, South Korea

- (Ongoing) Development of keyphrase extraction model through semi-supervised learning

FallSafe: Reducing Falls with Clinical Data

Nursing Informatics Laboratory, Inha University

January 2022 - June 2023

Incheon, South Korea

- Development of deep learning-based fall statement detection model using BERT
- Development of named entity recognition model for automatic fall report generation
- Network analysis for drug prescription patterns

Intelligent Clinical Guidance System Development

Nursing Informatics Laboratory, Inha University

August 2021 - December 2021

Incheon, South Korea

- Topic-modeling for insightful medical data analysis

Smart Port Traffic Control System

ICT Mentoring, The Federation of Korean Information Industries

April 2021 - November 2021

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

CONFERENCES

- [1] Insook Cho, EunJu Lee, and **Dong-geon 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] **Dong-geon 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 **Dong-geon 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)

PATENT

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

CERTIFICATIONS

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

SCHOLARSHIPS

- Received a **research scholarship** for undergraduate researchers (Spring 2023)
- Received a **work scholarship** from the Inha University Research and Business Foundation (Spring 2022 - Summer 2022)
- Received a **extracurricular activities scholarships** (Fall 2021, Fall 2022)

TEACHING EXPERIENCES

Teaching Assistant	March 2023 - Present
<i>Dept. of Information and Communication Engineering, Inha University</i>	<i>Incheon, South Korea</i>

- 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 (Part-time)	October 2021 - May 2023
<i>Jamcoding, Co., LTD</i>	<i>Seoul, South Korea</i>

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

TECHNICAL SKILLS

- **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^AT_EX

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