

Dong-geon Lee

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

RESEARCH INTERESTS

Deep learning, Natural language processing, Semi-supervised learning

EDUCATION

B.S. in Information and Communication Engineering <i>Inha University</i>	March 2018 - Present <i>Incheon, South Korea</i>
<ul style="list-style-type: none">• Expected Graduation Date: February 16, 2024• GPA: 3.77 / 4.5• Relevant Coursework: <i>AI Applications, Data Structure, Algorithm Capstone Design, Signals and Systems, Database Capstone Design, Object Oriented Programming</i>	

RESEARCH EXPERIENCES

Research Assistant (Advisor: Prof. Wonik Choi) <i>Data Intelligence Laboratory, Inha University</i>	November 2022 - Present <i>Incheon, South Korea</i>
Research Assistant (Advisor: Prof. Insook Cho) <i>Nursing Informatics Laboratory, Inha University</i>	August 2021 - June 2023 <i>Incheon, South Korea</i>

PROJECTS

Big Data-Driven Aviation Safety Management Technology <i>Data Intelligence Laboratory, Inha University</i>	November 2022 - Present <i>Incheon, South Korea</i>
<ul style="list-style-type: none">• Development of keyphrase extraction model through semi-supervised learning	
FallSafe: Reducing Falls with Clinical Data <i>Nursing Informatics Laboratory, Inha University</i>	August 2021 - June 2023 <i>Incheon, South Korea</i>
<ul style="list-style-type: none">• Development of deep learning-based fall statement detection model• Development of NER model for automatic fall report generation• Network analysis for drug prescription patterns	
Intelligent Clinical Guidance System Development <i>Nursing Informatics Laboratory, Inha University</i>	August 2021 - December 2021 <i>Incheon, South Korea</i>
<ul style="list-style-type: none">• Topic-modeling for insightful medical data analysis	
Smart Port Traffic Control System <i>ICT Mentoring, Ministry of Science and ICT</i>	April 2021 - November 2021 <i>Sejong, South Korea</i>
<ul style="list-style-type: none">• Development of a deep learning-based system for real-time detection of parking conditions• Development of a real-time 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, 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)

TEACHING EXPERIENCES

Teaching Assistant of ICE1005: Introduction to AI Programming Spring 2023
Dept. of Information and Communication Engineering, Inha University Incheon, South Korea

Teaching Assistant of ICE3020: Algorithm Capstone Design Spring 2023
Dept. of Information and Communication Engineering, Inha University Incheon, South Korea

Computer Programming Instructor (Part-time) October 2021 - May 2023
Jamcoding, Co., LTD Seoul, South Korea

- Courses: *Data Analysis and Visualization, Programming and Algorithms (Python & C)*

TECHNICAL SKILLS

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

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.

PATENT

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

LANGUAGE SKILLS

Advanced level of English proficiency demonstrated by a **TOEIC score of 805** obtained in February 2023 and an **OPIc IH (Intermediate High) rating** in August 2023.