

# Dong-geon Lee

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

## RESEARCH INTERESTS

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Deep learning, Natural language processing, Data science, Weakly-supervised learning

## EDUCATION

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### Inha University

*Bachelor of Science in Information and Communication Engineering*

Incheon, South Korea

*March 2018 - Present*

- Expected Graduation Date: *February 16, 2024*
- GPA: 3.68 / 4.5
- Relevant Coursework: *AI Applications, Data Structure, Algorithm Capstone Design, Signals and Systems, Database Capstone Design, Object Oriented Programming*

## RESEARCH EXPERIENCES

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### Data Intelligence Laboratory

*Research Intern (Advisor: Prof. Wonik Choi)*

Inha University, Incheon, South Korea

*November 2022 - Present*

### Nursing Informatics Laboratory

*Research Assistant (Advisor: Prof. Insook Cho)*

Inha University, Incheon, South Korea

*August 2021 - Present*

## PROJECTS

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### Big Data-Driven Aviation Safety Management Technology

*Data Intelligence Laboratory*

Incheon, South Korea

*November 2022 - Present*

- Development of keyphrase extraction model through semi-supervised learning

### FallSafe: Reducing Falls with Clinical Data

*Nursing Informatics Laboratory*

Incheon, South Korea

*August 2021 - Present*

- Development of deep learning-based fall statement detection model
- Network analysis for drug prescription patterns

### Intelligent Clinical Guidance System Development

*Nursing Informatics Laboratory*

Incheon, South Korea

*August 2021 - December 2021*

- Topic-modeling for insightful medical data analysis

### Smart Port Traffic Control System

*ICT Mentoring, The Federation of Korean Information Industries*

Seoul, South Korea

*April 2021 - November 2021*

- 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

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- [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. - Accepted as 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. - Accepted as Oral Presentation (Peer Reviewed)
- [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. (\*: Co-First Author) - Oral Presentation

## TEACHING EXPERIENCES

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### Teaching Assistant

Information and Communication Engineering, Inha University

Incheon, South Korea

March 2023 - Present

- Courses: *Algorithm Capstone Design, Introduction to AI Programming*

### Computer Programming Instructor (Part-time)

Jamcoding, Co., LTD

Seoul, South Korea

October 2021 - Present

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

## TECHNICAL SKILLS

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- **Programming Languages:** Python, C++, C, JavaScript
- **Frameworks and Libraries:** PyTorch, Keras, TensorFlow, KoNLPy, OpenCV
- **Systems and Tools:** Git, Linux, MySQL, Amazon Web Services, Arduino, L<sup>A</sup>T<sub>E</sub>X

## CERTIFICATION AND LICENSE

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- [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

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

## LANGUAGE SKILLS

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**Advanced level of English proficiency** demonstrated by a TOEIC score of 805 obtained in February 2023.