Dong-geon Lee

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EDUCATION

Mar. 2018 ~ Present	**Inha University** Department of Information and Communication Engineering *Bachelor Student* GPA: 3.68 / 4.5	Incheon, Korea

RESEARCH EXPERIENCES

- Research Intern at Data Intelligence Laboratory (Advisor : Wonik Choi), Department of Information and Communication Engineering, Inha University, Korea (Nov. 2022 ~ Present) / Development of Deep Learning-based Keyword Extraction Model, Pre-processing Time-series Data
- Research Assistant at Nursing Informatics Laboratory (Advisor : Insook Cho), College of Medicine, Inha University, Korea (Aug. 2021 ~ Present) / Development of Deep Learning-based Automatic Identification and Generation Systems

CONFERENCES

1. Insook Cho, EunJu Lee, **Dong-geon Lee**, "Effects of Language Differences on Inpatient Fall Detection Using Deep Learning", *Proceedings of the 19th World Congress on Medical and Health Informatics (MedInfo 2023)*, Sydney, Australia (July, 2023) - Accepted as Poster
2. **Dong-geon Lee**, EunJu Lee, 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
3. Changhun Koo, Yoonjoo Jung, **Dong-geon Lee**, "Through deep learning-based video processing, Design and implementation of Smart Port Parking Information System", *Annual Conference of KIPS 2021*, Yeosu, Korea (Nov. 2021) - Oral Presentation

PROJECTS

- **초정밀 디지털 국토정보 획득을 위한 절대, 상대, 연속복합 측위 고도화 기술 개발**, Korea Agency for Infrastructure Technology Advancement, Korea / Development of BERT-based keyword extraction model using semi-supervised learning (Dec. 2022 ~ Present)
- **임상 빅데이터와 행동경제학 이론을 적용한 다면적 낙상예방 중재 개발과 다기관 효과 탐색**, Ministry of

Science and ICT, Korea / Development of deep learning-based language model, Graphical network analysis using medical data (Jan. 2022 ~ Present)

- CDM 기반의 지능형 진료 가이드 알고리즘 개발과 확산을 위한 CDSS 플랫폼 개발, Ministry of Trade, Industry and Energy, Korea / Pre-processing Korean data using KoNLPy, Analysis of medical data through topic-modeling (Aug. 2021 ~ Dec. 2021)
- 스마트 항만 교통관제 시스템 (사람-항만-선박-컨테이너), Ministry of Oceans and Fisheries, Korea / Development of lane recognition algorithm and real-time parking status detection system (Apr. 2021 ~ Nov. 2021)

RESEARCH INTERESTS

- Natural Language Processing
- Korean Language Processing
- Data Science
- Applied Artificial Intelligence
- Time-Series Analytics

TEACHING EXPERIENCES

- Teaching Assistant Experience
  - "Introduction to AI Programming" (Spring 2023)
  - "Algorithm Capstone Design" (Spring 2023)
- Part-time Computer Programming Instructor at Jamcoding, Seoul, Korea (Oct. 2021 ~ Present)
  - Teaching programming classes (Data Analysis, Python·C Algorithms, etc)

CERTIFICATION AND LICENSE

- "Deep learning Course (Advanced)", Inha Innovation Sharing Universirt for Future Vehicle Technology (Issued Jan 2023)
- "Building Transformer-Based Natural Language Processing Applications", NVIDIA Deep Learning Institute (Issued Aug 2022)
- "Fundamentals of Deep Learning", NVIDIA Deep Learning Institute (Issued Aug 2022)
- "Amazon Web Services (AWS) Machine Learning Course", Inha Innovation Sharing Universirt for Future Vehicle Technology, (Issued Feb 2022)
- "Understanding Deep Learning", Hancom Academy (Issued Feb 2022)

SKILLS AND TECHNIQUES

- Programming Languages
  - Python / C / C++ / JavaScript
- Frameworks and Libraries of Python
  - PyTorch / Keras / TensorFlow
  - KoNLPy / pandas / OpenCV / matplotlib / scikit-learn / gensim
- Systems and Tools
  - Git / MySQL / Amazon Web Services / Google Cloud Platform
  - Linux / Raspberry Pi / Arduino / Verilog

PATENTS

1. Yoonjoo Jung, **Dong-geon Lee**, Changhun Koo, "System for providing parking information and control method", KR-Application No. 10-2021-0178090