

Jinseo Lee

Personal Data

Place and Date of Birth: Republic of Korea | 08 February 2002
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Research Interests

- Information security, network security
- Artificial intelligence, natural language processing

Education

Korea Advanced Institute of Science and Technology (KAIST) Aug 2023—Current
M.S. in School of Computing

Korea Advanced Institute of Science and Technology (KAIST) Feb 2019—Aug 2023
B.S. in School of Computing and Business and Technology Management

Research Projects

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| Jan 2023—Current | Downgrading of DNS-over-HTTPS We are measuring the current state of DNS-over-HTTPS downgrading in the Internet. Advisor: Prof. Minsuk Kang |
| Apr 2023—Jun 2023 | Advanced Skipping Counter: A State-of-the-art Counter For Skipping Ropes Using Sensors We recognized a limitation with existing methodologies for automatic jump counting, as they lacked the ability to differentiate between different types of jumps and necessitated complex setups. In response, we developed and implemented an advanced jump counter that possesses enhanced capabilities in distinguishing jump types while requiring minimal resources (only the device and an Android smartphone). For further details, the source code and a concise report can be accessed on GitHub . Cooperated with Nayoung Oh |
| Mar 2023—May 2023 | Qualcomm-KAIST Innovation Awards 2023 We participated in the Qualcomm-KAIST Innovation Award 2023, a hackathon aimed at developing a reliable machine learning model to predict the Myers-Briggs Type Indicator (MBTI) of individuals using only the questions and corresponding answers. The source code and report for our project are available on GitHub . Cooperated with Seogyong Jeong and Joohee Kim |
| Oct 2022—Dec 2022 | DUDE (DUplication DETector) We have developed a GitHub Action that detects duplication among GitHub issues and notifies the respective writers. You can find the GitHub Action at the GitHub Marketplace . Advisor: Prof. Kihong Heo |

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| Mar 2022–June 2022 | Improved DialogueRNN: Dealing with Emotional Shift We conducted an investigation into emotion detection utilizing artificial intelligence, which exhibited subpar performance when dealing with dialogues featuring rapid changes in emotion. We identified this issue as the 'emotional shift problem' and devised a solution to address it, resulting in enhanced performance. Cooperated with Darae Lee, Jonghee Jeon and Joohee Kim |
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Skills

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| Programming Languages | Beginner: Rust, Java Intermediate: OCaml Advanced: C, C++, Python |
| Languages | Korean: Native English: Professional working proficiency Norwegian: Elementary proficiency |

Leadership Experience

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| Graduate Student Representative KAIST School of Computing | Aug 2023–February 2024 |
| Representative KAIST Catholic Student Union Sanarae | Sep 2022–Jun 2023 |
| Standing Committee Daejeon Catholic Council of University Students | Apr 2021–Dec 2021 |
| Executive KAIST Catholic Student Union Sanarae | Sep 2019–Dec 2020 |