

JAEHYEON LEE

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RESEARCH INTERESTS

Recommendation System, Reinforcement Learning, Autonomous Driving

EDUCATION

Daegu Gyeongbuk Institute of Science and Technology (DGIST)

Daegu, Republic of Korea

B.S. in School of Undergraduate Studies | GPA: 3.51/4.3

Mar 2020 – Present

Major in Computer Science

Double Major in Mechanical Engineering

RESEARCH EXPERIENCE

Undergraduate Research Assistant

June 2023 - December 2024

- At Data Science LAB, Division of Nanotechnology, DGIST
- Mentor: Dr. Sang-Chul Lee
- Project: Recommendation System

Undergraduate Summer Internship program

July 2020 - August 2020

- At CSI LAB, Dept. of Electrical Engineering & Computer Science, DGIST
- Mentor: Prof. Kyung-Joon Park
- Project: 1-DOF PID control through wireless network

PROJECTS

4Wheel-Steering AMR+ RL

December 2024

- Autonomous Driving
- Reinforcement Learning

PUBLICATIONS

*Equal contributor, *Corresponding author

4. Daewon Kim, Sunwoo Yu, **Jaehyeon Lee**, and Seonghun Lee*, “*Development of a Driver Monitoring System Using the Capacitive Steering Wheel and FMCW Radar*”, The Korean Institute of Communications and Information Sciences (KICS) Conference (Fall), Nov. 2024, Gyeongju.
3. **Jaehyeon Lee**, Sunwoo, Yu*, Daewon Kim, and Kiwon Choi, “*Multi-patching: life-log Classification with the Reconstructed Representation of Multivariate Time Series*”, The 15th International Conference on ICT Convergence (ICTC 2024), pp. 798-803, Oct. 2024, Jeju.
2. **Jaehyeon Lee**, Seung-eon Lee, and Sang-chul Lee*, “*Machine Learning Automation: Evaluating AutoML in the Manufacturing Industry and Efficient Data Processing via Large Language Model GPT-3.5*”, Korea Software Congress 2023 (KSC 2023), pp.1,770-1,772, Dec. 2023, Busan.
1. Seung-eon Lee, **Jaehyeon Lee**, Minyeong Kim, and Sang-chul Lee*, “*Zero-Shot BI Image Recommendation System based on Image Estimation via Vision Language Model*”, The 4th Korea Artificial Intelligence Conference, pp.204-205, Sep. 2023, Jeju.

AWARDS & HONORS

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| Encouragement Prize, The World Embedded Software Contest 2024, KESSIA | November 2024 |
| ETRI Director's Award, Human Understanding AI Paper Challenge 2024, ETRI | October 2024 |
| Excellence Award, Undergraduate Paper Competition at Korea Software Congress 2023 (KSC 2023) | Feb 2024 |

SKIILS

TOEIC: 805 (2024.12.29.)

Languages: Python, C++

Revised February 5, 2025