

CONTACT
INFORMATION

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RESEARCH
INTERESTS

I am an AI developer who wants to make the world a better place through artificial intelligence. I believe that AI can play a significant role in various fields, such as saving lives and increasing work efficiency. When I first started studying AI, I couldn't have imagined such a future, but now, with the development of technologies like LLM and MLLM, AI is able to perform many tasks that only humans could do. I am thrilled that we are getting closer to the ideal AI I have envisioned. This naturally led me to take an interest in LLM, and I am currently studying and working with it. I am continuously striving to gain diverse experiences to become an AI researcher and engineer who contributes to making the world a better place. Here are some topics I am interested in:

- Generative model
- LLM, MLLM tuning (including PEFT) and serving
- Healthcare
- Document understanding

SKILLS

Programming: Python, Java (Spring), JavaScript, FastAPI
Frameworks/Tools: PyTorch, PyTorch Lightning, LLM Training & Serving (Triton-client, TensorRT-LLM, TensorRT-LLM Backend, vLLM, ollama), PEFT, RAG, Docker, Git, Elasticsearch (ELK)
Environment Preferences: Linux, Mac

EDUCATION

- Ph.D. Intergrated Course, Graduate school of AI, KAIST **Sep. 2021 - present (leave of absence)**
- M.S., Aerospace Engineering, KAIST **Sep. 2019 - Sep. 2021**
- B.S., Aerospace Engineering, KAIST **Mar. 2015 - Sep. 2019**
 *Double major: Industrial Design

WORK

- Lomin ML Team (전문연구요원) **Sep. 2021 - Apr. 2023**
 - ★ LLM training & serving.
 - ★ BentoML & and Triton serving.
 - ★ Detection model enhancement.
 - ★ Developed zero-shot document classifier.
 - ★ Developed end-to-end document OCR model.
 - ★ Autoscan model serving.

- IBRICKS AI Tech (전문연구요원) Sep. 2021 - Apr. 2023
 - ★ Improved the performance of the document embedding model.
 - ★ Maintained a document analysis product built in Java.
 - ★ Open-domain chat system modeling.
 - ★ Developed document extractive summarization language model.
 - ★ Language model lightweighting.
 - ★ Developed Text augmentation model based on GAN.
 - ★ Developed online commercial advertisement OCR model.
 - ★ Developed document inverted indexing.

RESEARCH
CONTRIBUTION

- 2025 PC Member, Association for the Advancement of Artificial Intelligence (AAAI)
- 2023, 2024 PC Member, Association for the Advancement of Artificial Intelligence (AAAI)
- 2023 Industry Track Committee, Empirical Methods in Natural Language Processing (EMNLP)
- 2023 PC Member, Empirical Methods in Natural Language Processing (EMNLP)
- 2023 PC Member, Association for Computational Linguistics (ACL)

PUBLICATION

- (preprint) [End-to-end Documents Information Extraction and Detection using Documents Recognition-Detection Transformer](#)
J.M. Lee*, I.P. Hong*, J.W. Kim* (*: equal contribution)
- [Unsupervised Text Embedding Space Generation Using Generative Adversarial Networks for Text Synthesis](#)
J.M. Lee and T.B. Ha
Northern European Journal of Language Technology (NEJLT), 2023
- [Open-Domain Dialogue Generation using Pre-trained Language Models in Korean](#)
J.M. Lee*, H.S. Kim*, T.B. Ha, H.J. Park and Y.M. Ahn (*: equal contribution)
Conference of Korea Computer Congress, 2022
- [Laser structural training, artificial intelligence-based acoustic emission localization and structural/noise signal distinguishment in a thick FCEV fuel tank](#)
J.M. Lee, Y.S. Choi, and J.R. Lee
International Journal of Hydrogen Energy (IJHE), 2022

CONFERENCE

- [Acoustic emission localization on composite hydrogen storage tank and feature analysis of acoustic emission and noise signals](#)
J.M. Lee and J.R. Lee
Conference of The Korean Society for Aeronautical and Space Sciences (KSAS), 2021
- [Nondestructive Testing and Structural Health Monitoring for Pressure Vessels of FCEV using Guided-Wave Ultrasonic Propagation Imager](#)
Y.S. Choi, **J.M. Lee** and J.R. Lee
Conference of The Korean Society for Composite Materials (KSCM), 2020
- [Structural Health Monitoring of Hydrogen Pressure Vessel using Artificial Intelligence](#)
J.M. Lee, Y.S. Choi, and J.R. Lee
Conference of The Korean Society for Nondestructive Testing (KSNT), 2020 (**Award**)