Jun-Min Lee

CONTACT INFORMATION	KAIST, Seoul, South Korea *E-mail*: ljm56897@gmail.com, ljm565@kaist.ac.kr *GitHub*: https://github.com/ljm565 *Blog*: https://ljm565.github.io *Portfolio*: https://ljm565.github.io/contents/portfolio.html *LinkedIn*: https://www.linkedin.com/in/jun-min-lee-189383264/

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.
  - ⋆ Document 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**)