Jun-Min Lee

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| CONTACT INFORMATION | KAIST, Seoul, South Korea<br>*E-mail*: ljm56897@gmail.com, ljm565@kaist.ac.kr<br>*GitHub*: https://github.com/ljm565<br>*Blog*: https://ljm565.github.io<br>*Portfolio*: https://ljm565.github.io/contents/portfolio.html<br>*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**
- M.S., Aerospace Engineering, KAIST     **Sep. 2019 - Sep. 2021**
- B.S., Aerospace Engineering, KAIST     **Mar. 2015 - Sep. 2019**
  *Double major: Industrial Design

WORK

- Kakao Healthcare (DS/IX)     **Oct. 2024 - Apr. 2025**
  - ⋆ GCP-based healthcare chatbot build.

- Lomin (ML Team, 전문연구요원)     **Apr. 2023 - Sep. 2024**
  - ⋆ 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**)