Yohan Lee

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AI Research Engineer, KakaoBank – Pangyo, Korea	May. 2025 – Curr.
Development of Finance-Specific LLMs and Autonomous Agent Developed a in-house LLMs tailored to banking applications 	
AI Researcher, Coxwave – Seoul, Korea	Jul. 2024 – May. 2025.
 Development of Domain-Specific LLMs for Quantum Physics Built an AI Tutor and Assistant for quantum physics using continual pre-training and Built a unified model (Llama 3.1, 8B) with 81.1% accuracy on MCQ test sets, outpe Secured a \$140k contract and delivered AI solutions under the AI Voucher program Research on Many-Shot Jailbreaking Developed a comprehensive attack framework for many-shot scenarios Analyzed long-context vulnerabilities in open-source LLMs 	rforming GPT-40 (63.7%)
AI Research Engineer (NLP Specialist), WRTN Technologies – Seoul, Korea	Mar. 2024 – Jun. 2024
Research on LLM Evaluation • Designed and implemented a benchmark system for in-the-wild human-assistant dia • Developed a evaluation framework for assessing human-assistant interactions in rea	
Research Scientist (NLP), Riiid – Seoul, Korea	Jul. 2023 – Feb. 2024
 Research on Large Language Models for Education Competed on the Huggingface Open LLM Leaderboard, achieving 1st place on Oct, Explored the effects of instruction tuning from data (quantity, quality, diversity) and objective) perspectives Implemented diverse optimization techniques for efficient training and inference Automated Essay Scoring Achieved state-of-the-art on public essay scoring benchmarks Conducted "Bar exam" scoring which performs better than GPT-4 	
NLP Engineer, Tunib – Seoul, Korea	Dec. 2021 – Feb. 2023
 Korean Open-domain Chatbot Service Directed dialogue data collection and quality filtering using advanced LLMs Developed an in-house Korean LM for multi-persona chatbot with self-collected data Operated a Kakaotalk-based chatbot service 	asets
 AI Grand Challenge: Policy Support AI Awarded Ministry of Science and ICT Minister's Award Orchestrated TableQA data collection with policy domain experts Developed continual learning framework with OCR-based parsing and additional ta Developed an integrated QA system for processing texts, tables, and charts 	ble data
Publications	

What Really Matters in Many-Shot Attacks?

Professional Experience

An Empirical Study of Long-Context Vulnerabilities in LLMs [paper]

Sangyeop Kim*, Yohan Lee*, Yongwoo Song*, Kimin Lee †

• TLDR: This paper reveals that LLM vulnerabilities in long contexts are driven by context length rather than shot characteristics. Our attacks succeeded even with meaningless text or simple repeated examples, highlighting fundamental limitations in current safety mechanisms.

ACL 2025 main

SAFARI: Sample-specific Assessment Framework for AI in Real-world	
Interactions [paper]	

Yohan Lee^{*}, Sungho Park^{*}, Sangwoo Han^{*}, Yunsung Lee^{*}, Yongwoo Song, Adam Lee, Jiwung Hyun, Jaemin Kim, Seungtaek Choi, Hyejin Gong

• TLDR: SAFARI is an automated evaluation framework for LLMs, leveraging real-world multilingual chat data to assess diverse skills and compare commercial and open-source systems in practical scenarios.

HEISIR: Hierarchical Expansion of Inverted Semantic Indexing for Training-free Retrieval of Conversational Data using LLMs [paper]

Sangyeop Kim, Hangyeul Lee, Yohan Lee

• TLDR: HEISIR (Hierarchical Expansion of Inverted Semantic Indexing for Retrieval) is a novel training-free method enhances conversational data retrieval by leveraging Large Language Models and a two-step semantic indexing.

Research & Teaching Experience

Research Assistant, Seoul National University - Seoul, Korea Jul. 2024 - Sep. 2024 Structure & Knowledge Injection into Machine Learning Lab, Prof. Jay-Yoon Lee.

Research on Reasoning and Rationality Methodologies for LLMs

- Investigated strategies like self-consistency and difficulty-based decoding to refine reasoning paths using pre-measured task difficulty
- Developed methods to pre-measure task difficulty and assess model rationality, improving reasoning in LLMs

Teaching Assistant, Naver Connect & Upstage - Seoul, Korea

Boostcamp AI Tech (Generation for NLP)

- Designed comprehensive curriculum and create in-depth lecture materials.
- Orchestrated hands-on NLP competitions to bridge theory and practical application.

Awards and Honors

CEO's Award, CJ Logistics	
 Main Competition (Presentation for all task tracks): 2nd Place Preliminary Round (Unprocessed English address translation task): 1st Place (Accuracy speed 40%) 	⁷ 60% + Inference
2022 AI Grand Challenge: Policy Support AI, IITP	Jan. 2023
 Minister's Award, Ministry of Science and ICT Main Competition (Text/Table/ChartQA task): 3rd place Prize: 2 billion KRW in support funding 	
3rd Annual University Student AI x Bookathon, SKKU, Naver	Nov. 2021
 President's Award, Sungkyunkwan University Main Competition (Essay Creation task): Grand Prize 	
Scholarship, Yonsei University	Aug. 2019
Awarded for academic excellence and leadership potential	

Education

Yonsei University, Seoul, Korea

• B.A in German Language and Literature, Cognitive Science

• Academic Background: Machine Learning and Its Applications, Deep Learning, Algorithmic Thinking,

NAACL 2025 findings

Mar 2015 – Feb 2022

Jul. 2024 – Dec. 2024