Sangam Lee

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Education

Ph.D Student, Yonsei University   Mar. 2024 – Present
- Data & Language Intelligence Lab (Advisor: Prof. Dongha Lee)

B.S., Computer Science & Engineering, SEOULTECH   Mar. 2018 – Feb. 2024
- Department of Computer Science and Engineering

B.S., Business Administration, SEOULTECH   Mar. 2017 – Feb. 2024
- Department of Business Administration[Global Technology Management]

Research Experience

Graduate Student Researcher, Yonsei University   Jul. 2023 – Present
- Data & Language Intelligence Lab (Advisor: Prof. Dongha Lee)
- Research on Information Retrieval and Natural Language Processing

Research Intern, Seoul National University Hospital   Feb. 2023 – Jul. 2023
- Biomedical Informatics (BMI) Lab
- Researching language models and systems (eg. T5, RAG) that automatically mapping written medical record text into SNOMED-CT codes.
- Conducted research on TCR-BERT, a model that encodes information about the protein sequence of the T-cell receptor.

Undergraduate Research Intern, SEOULTECH   Jan. 2022 – Apr. 2022
- Service Management Lab

Publications

BESPOKE: Benchmark for Search-Augmented Large Language Model Personalization via Diagnostic Feedback

{Hyunseo Kim*, **Sangam Lee***}, Kwangwook Seo, Dongha Lee
Equal contribution (co-first authors)
arXiv, 2025

Imagine All The Relevance: Scenario-Profiled Indexing with Knowledge Expansion for Dense Retrieval

Sangam Lee, Ryang Heo, SeongKu Kang, Dongha Lee
Conference on Language Modeling (COLM), 2025

EpicPred: predicting phenotypes driven by epitope-binding TCRs using attention-based multiple instance learning

Jaemin Jeon, Suwan Yu, **Sangam Lee**, Sang Cheol Kim, Hye-Yeong Jo, Inuk Jung, Kwangsoo Kim
Bioinformatics, 2025

Why These Documents? Explainable Generative Retrieval with Hierarchical Category Paths

Sangam Lee, Ryang Heo, SeongKu Kang, Susik Yoon, Jinyoung Yeo, Dongha Lee
arXiv, 2024

Small language models are equation reasoners

Bumjun Kim, Kunha Lee, Juyeon Kim, **Sangam Lee**
arXiv, 2024

WORK EXPERIENCE

Education Mentor, Grepp, Inc. Mar. 2023

- Programmers 5th AI dev-course mentor
- Answered students' questions about the class, and managed and checked the github repository for assignment submissions.

Project Intern, Wonderful Platform, Inc. Jul. 2022 – Sep. 2022

- Participated as an intern in the project "AI Convergence Public Safety and Rapid Response Support Project"
- A project aimed at building a process that can automatically identify missing persons in CCTV images based on object detection models such as YoloV5
- Build model training datasets and manage data ingestion processes and database

EXTRACURRICULAR ACTIVITY

Member & Commitee, Student Association Club BOAZ Jul. 2023 – Jul. 2024

- 21th member & commitee of BOAZ, a big data alliance club, performing data analytics and data engineering-related activities

Member, Student Association Club BITAmin Feb. 2022 – Feb. 2023

- 9th member of BITAmin, a big data alliance club, performing data analytics-related activities
- Develop BSINSA,, NLP Recommendation System Based Fashion E-Commerce Platform Demo built with Pytorch, Huggingface, React, Express, FastAPI
- Teach club members about git and github

Student Representative, SEOULTECH Dec. 2020 – Nov. 2021

- The 10th President of the Global Technology management major of Business Administration, Seoul National University of Science and Technology (SEOULTECH)

AWARDS AND HONORS

Grand Prize, Yongin City SW/AI Hackathon Oct. 2023

- Yongin Industry Promotion Agency, Korea

3rd Award, ETRI Open API Use Case Contest Oct. 2022

- ETRI, Korea