SangYeon Cho

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💼 Master of Science in Engineering @ Department of AI, Chung-Ang University, Seoul 06964, Republic of Korea

Welcome!

"Let's do my best rather than be the best."

Hello, I'm Cho Sangyeon. I am currently a master's degrees at Chung-Ang University in Korea. I am interested in the fields of machine learning and deep learning engineers.

Research Interests

- Deep Learning
- Natural Language Processing
- Knowledge Distillation
- Multi-modal Representation Learning

Education

MS   **Chung-Ang Univ**, AI Engineering   2023.03 – 2025.02
- GPA: 4.32/4.5 (Transcripts ↗)
- Coursework: Multi-modal Learning, Knowledge Distillation
- Advisor: Prof. Jungyeong Kim(Labs ↗)
- Graduation Thesis ↗

BS   **Kookmin Univ**, Software Engineering   2017.03 – 2023.02
- GPA: 4.09/4.5 (Transcripts ↗)
- Coursework: Algorithms, Data Structure, Artificial Intelligence
- Graduation Work ↗

Publications

Improving Multimodal Data Quality with Unified Filtering Score (UF-Score)   2024.12
Sangyeon Cho, Mingi Kim, Hwang JinKwon, Jaehoon Go, Junyeong Kim*
Association for the Advancement of Artificial Intelligence (AAAI) GoodData, 2025

Multi2Cap: Improving Automated Audio Captioning with Cross-modal Feature Distilla-   2024.11
tion and Large Language Model   *Under Review*
Sangyeon Cho, Jangyeong Jeon, Mingi Kim, Jaeho Han, Junyeong Kim*
Annual Conference of the Nations of the Americas Chapter of the Association for Computa-
tional Linguistics (NAACL), 2025

Synergy-CLIP: Extending CLIP with Multi-modal Integration for Robust Representation   2024.09
Learning   *Under Review*
Sangyeon Cho, Jangyeong Jeon, Mingi Kim, Junyeong Kim*
IEEE ACCESS, 2024

BioBridge: Unified Bio-Embedding with Bridging Modality in Code-Switched EMR   2024.08
Jangyeong Jeon, *Sangyeon Cho*, Dongjoon Lee, Changhee Lee, Junyeong Kim*
IEEE ACCESS, Volumn 12, 2024 ↗

DSG-KD: Knowledge Distillation from Domain-Specific to General Language Models   2024.08
Sangyeon Cho, Jangyeong Jeon, Dongjoon Lee, Changhee Lee, Junyeong Kim*

IEEE ACCESS, Volumn 12, 2024 ↗

ConCSE: Unified Contrastive Learning and Augmentation for Code-Switched Embeddings   2024.07
Jangyeong Jeon, *Sangyeon Cho*, Minuk Ma, Junyeong Kim*

IEEE International Conference on Pattern Recognition (ICPR) ↗

A pediatric emergency prediction model using natural language process in the pediatric emergency department   2024.06
Under Review

Arum Choi, Chohee Kim, Jisu Ryoo, Jangyeong Jeon ,*Sangyeon Cho*, Dongjoon Lee, Junyeong Kim, Changhee Lee*, Woori Bae*

Nature Scientific Reports, 2024

Experience

Lablup Inc., AI Research Assistants   Seoul, Korea
2022.06 – 2022.09

- Contribute to the research team
- Developed ground truth data pre-processing module
- Predictive modeling of respiratory infectious disease transmission risk based on ground truth data of droplet spread
- Data augmentation modeling using GAN
- Seminar LINK ↗

Projects

119 Intelligent report reception voice recognition data construction   2023.09 - 2024.09

- building data pre-processing and analytics pipeline for speech recognition
- modeling dispatch decision-making for decision aids for guard officers
- Tools Used: Pyhon, SQL

Optical Character Recognition (OCR) model improvements   2023.04 - 2024.09

- Designed a model to classify emergency and critical patients using emergency department EMR data.
- Pre-trained the language model using clinical notes collected from real hospitals.
- we additionally utilize clinical note (text) information to utilize the most potential information.
- By combining tabular encoder and text encoder at the embedding level, we achieved better performance than existing models.

Optical Character Recognition (OCR) model improvements   2022.09 - 2023.02

- AI Competition Organized by Software Center University
- Using Pororo as a baseline, we improved it by utilizing data augmentation and adding the Mix-Style module.
- As a result, the team ranked at the top of the leaderboard and won an honorable mention.
- Presentation LINK ↗

AI speakers for seniors living alone   2022.03 - 2022.06

- Designing an AI speaker that analyzes the emotions of seniors living alone and alerts their caregivers
- Responsible for designing/training deep learning models
- We used two models: Sentiment Classification Model and Sentiment Conversation Model.
- Github LINK ↗

Research on Meta-Learning Improvement   2022.02 - 2022.12
- Studying/implementing meta-learning in general
- Considered how to improve Model-Agnostic Meta-Learning (MAML) under the guidance of a professor
- Conducted research on applying MAML to natural language processing by combining it with pruning and knowledge distillation
- Github LINK ↗

Research on Improving Information Security Behavior   2020.10 - 2022.04
- Developing a framework to guide better information security compliance behavior in the enterprise
- Teach principal investigators programming fundamentals
- Teach principal investigators on machine learning and deep learning concepts
- Github LINK ↗

Awards & Honors

Awards

IEIE Summer Conference, Encouragement Award	2024.06
SW-focused University Collaborative AI Competition, Encouragement Award	2022.09

Honors

Merit Scholarships	2022.09
Merit Scholarships	2022.03
S&T Foundation Scholarships	2022.02

Technologies

Languages: Python, C/C++, C#, Java, SQL, Scala

Credentials: ADsP