Gyuseok Lee

M.S. Student

Graduate School of Artificial Intelligence

Pohang University of Science and Technology (POSTECH)

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GitHub Profile

in LinkedIn Profile

RESEARCH INTERESTS

Recommender System, Continual Learning, Knowledge Distillation, Diffusion Models, Medical AI

EDUCATION

• M.S., Graduate School of Artificial Intelligence, POSTECH

Feb 2022 - Feb 2024

Overall GPA: 3.77 / 4.30 Advisor: Hwanjo Yu

Thesis: Collaborative Knowledge Distillation for Continual Learning in Recommender System

• B.S., Computer Science, Mathematics & Statistics, Handong Global University (HGU) Feb 2015 - Feb 2022

Overall GPA: 4.01 / 4.50, Major GPA: 4.22 / 4.50 (Magna Cum laude)

Advisor: InJung Kim, Heonjoo Kim

RESEARCH EXPERIENCE

• Visiting Researcher, University of Virginia (UVA)

Sep 2023 - Present Charlotteville, VA

 $Topic:\ Diffusion\ Recommender\ Model$

Advisor: Jundong Li

• Visiting Researcher, Carnegie Mellon University (CMU)

Aug 2022 - Feb 2023

Coursework: Deep Learning, Game Theory, NLP, Large-Scale Multimedia Analysis Sponsored by the Government of the Republic of Korea Pittsburgh, PA

• Graduate Research Assistant, POSTECH

Feb 2022 - Present

Topic 1: Collaborative Knowledge Distillation for Continual Learning on Recommender System

Pohang, South Korea

Topic 2: Calibrating Deep Learning Model for Medical AI Applications with Imbalanced Data

• Medical AI Research Intern, AITRICS

Dec 2021 - Feb 2022

Topic 1: Two-Stage Process with CNN and XGBoost for Thyroid Cancer Prediction

Topic 2: Self-supervision for Classification of Pathology Images with Limited Annotations

Seoul, South Korea

• Undergraduate Research Intern, HGU

Feb 2021 - Dec 2021

 $Topic:\ Development\ of\ Deep\ Neural\ Network\ Partial\ Learning\ Algorithm\ for\ On-Device\ Learning$

Pohang, South Korea

Advisor: InJung Kim

PUBLICATIONS

- Gyuseok Lee, Yaochen Zhu, Jundong Li, "Curriculum Cross Conditional Diffusion Model for Recommender System", ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), 2024, (To be submitted)
- 2. **Gyuseok Lee***, SeongKu Kang*, Hwanjo Yu, "Collaborative Knowledge Distillation for Continual Learning on Recommender System", ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2024, (To be submitted)
- 3. **Gyuseok Lee**, Hwanjo Yu, "Calibrating Deep Learning Model for Medical AI Applications with Imbalanced Data", The Korean Institute of Communications and Information Sciences (KICS), 2023

PROJECTS

• Cross Conditional Curriculum Diffusion Model for Recommender System

Recommender System. UVA

Sep 2023 - Present

• Collaborative Knowledge Distillation for Continual Learning on Recommender System

Mar 2023 - Present

Recommender System, POSTECH

Sep 2022 - Dec 2022

• Effective Visual Clustering for Personalized Multimodal Fashion Recommendation

Recommender System, CMU

• MLM is All you need (QA/QG) NLP, CMU	Sep 2022 - Dec 2022
• Automatic Paper Assessment NLP, CMU	Sep 2022 - Dec 2022
$ \hbox{\bf • Multi-Agent Reinforcement Learning for Taxi Repositioning with Attention Network } {\it Reinforcement Learning, CMU} \\$	Sep 2022 - Dec 2022
$ \hbox{\bf \cdot Calibrating Deep Learning Model for Medical AI Applications with Imbalanced Data } {\it Computer Vision \& Medical AI, POSTECH} $	Jun 2022 Aug 2022
• Self-Supervision for Classification of Pathology Images with Limited Annotations Computer Vision & Medical AI, AITRICS	Dec 2021 - Feb 2022
• Two-Stage Process with CNN and XGBoost for Thyroid Cancer Prediction Computer Vision & Medical AI, AITRICS	Dec 2021 - Feb 2022
• Developing DNN Partial Learning Algorithm for On-Device Learning $Computer\ Vision,\ HGU$	Feb 2021 - Dec 2021
TEACHING ASSISTANCE EXPERIENCE	
• Object Oriented Programming $C++$, $POSTECH$	Feb 2023 - Jun 2023
• Big Data Analysis using R Programming R programming, HGU	Sep 2021 Dec 2021
• Mathematical Statistics Statistics, HGU	July 2021
• Statistical Methodology Statistics, HGU	Mar 2021 - Jun 2021
• Python Programming Python, K-MOOC	Sep 2020 - Dec 2020
• Python Programming Python, HGU	Mar 2020 - Dec 2020
Honors	
• Foundation Scholarship, GyeongWon Scholarship Foundation, Korea	Nov 2021
• Foundation Scholarship, GyeongWon Scholarship Foundation, Korea	Mar 2021
• Academic Excellence Scholarship, HGU, Korea	Mar 2021
• Academic Excellence Scholarship, HGU, Korea	Sep 2020
• Academic Excellence Scholarship, HGU, Korea	Mar 2020
Creation	

SKILLS

Python, PyTorch, TensorFlow, Linux, R programming, C++, C