Sein Kim

291 Daehak-ro Yuseong-gu, Daejeon 34141 Email: rlatpdlsgns (AT) kaist.ac.kr Alt: rlatpdlsgns81 (AT) gmail.com Phone: (+82)10 9123 9219

EDU	CATION	
Korea Advanced Institute of Science and Technology (KAIS	5 Т)	Daejeon, ROK
BSc in Industrial Engineering		Graduated Aug. 2022
Korea Advanced Institute of Science and Technology (KAIS		Daejeon, ROK
Integrated Master's/doctoral program in Industrial Engineering: from	2022. Sep	Present (AT) DSAIL, Advisor: Prof. Chanyoung Park
PART	ICULARS	
ACADEMIC INTERESTS:		
Machine/Deep Learning		
 Recommendation Systems 		
Graph Representation Learning		
Graphs, GNNVarious applications of ML/DL		
Statistics		
Publ	lication	
[5] DSLR: Diversity Enhancement and Structure Learning for Reh		
Seungyoon Choi*, Wonjoong Kim*, Sungwon Kim, Yeonjun I The Web Conference (WWW 2024 Oral)	n, Sein Kim ar	nd Chanyoung Park
[4] MUSE: Music Recommender System with Shuffle Play Recom	mendation Fn	hancement
Yunhak Oh, Sukwon Yun, Dongmin Hyun, Sein Kim and Cha		
ACM International Conference on Information and Knowled		nt (CIKM 2023)
[3] Shift-Robust Molecular Relational Learning with Causal Subst	tructure	
Namkyeong Lee, Kanghoon Yoon, Gyoung S. Na, Sein Kim a		
ACM SIGKDD Conference on Knowledge Discovery and Data		2023)
[2] Task Relation-aware Continual User Representation Learning		
Sein Kim, Namkyeong Lee, Donghyun Kim, Minchul Yang an		
ACM SIGKDD Conference on Knowledge Discovery and Data [1] Fusing Multi-modal Medical Data via Multiplex Network for M		
Sein Kim , Namkyeong Lee, Junseok Lee, Dongmin Hyun an		
Thirty-Seventh AAAI Conference on Artificial Intelligence (AA		
	EXPERIENCE	
Winter Lab Internship program: DSAIL@KAIST		Dec. 2020 - Feb. 2021
Advisor: Prof. Chanyoung Park	Data Scier	nce and Artificial Intelligence Lab (AT) KAIST (DSAIL@KAIST)
Machine/Deep Learning		
Recommendation Systems		
Graph Representation LearningGNN, Graphs		
[Alone] Individual Study		Spring, Mar. 2021 - Aug. 2022
Advisor: Prof. Chanyoung Park	Data Scier	nce and Artificial Intelligence Lab (AT) KAIST (DSAIL@KAIST)
Machine/Deep Learning		
Graph Representation Learning Graph Funds adding Mathematic		
Graph Embedding Methods		
[URP] Undergraduate Research Program		July. 2021 - Dec. 2021
Advisor: Prof. Chanyoung Park	Data Scier	nce and Artificial Intelligence Lab (AT) KAIST (DSAIL@KAIST)
Graph Representation LearningMedical Machine Learning		
[Internship] Research Internship in NAVER Shopping		Dec. 2022 - Feb. 2023
Advisor: Donghyun Kim, Min-Chul Yang		NAVER
Continual Learning Decommondation System		
 Recommendation System 		

User Representation Learning

Teaching Assistant of Data Structure, Algorithms KEB Hana Bank • Data Structure • Algorithms • Algorithms Sep. 2023 Teaching Assistant of Graph Machine Learning and Recommendation Systems Samsung Electronics • Graph Machine Learning Samsung Electronics	····j····	-	
 COVID 19 Warning Systems for Infectious Disease Study for Transmission of COVID 19 or other diseases Project Hana Bank (AT) DSAIL@KAIST Project: Recommendation Systems for Financial Products by Graph Representation Learning Financial Products Graph Representation Learning Recommendation Systems Project NAVER Shopping (AT) DSAIL@KAIST Project NAVER Shopping (AT) DSAIL@KAIST Universal User Representation Continual Learning Recommendation Systems Diviersal User Representation Continual Learning Recommendation Systems Large Language Model Teaching EXPERIENCE Data Structure, Algorithms Algorithms Algorithms Algorithms Alspecialist Course - Samsung Electronics Graph Machine Learning and Recommendation Systems 	Contract Tracing System project		Oct. 2020 - Dec. 2020
 Warning Systems for Infectious Disease Study for Transmission of COVID 19 or other diseases Project Hana Bank (AT) DSAIL@KAIST Project: Recommendation Systems for Financial Products by Graph Representation Learning Financial Products Graph Representation Learning Recommendation Systems Project NAVER Shopping (AT) DSAIL@KAIST Project NAVER Shopping (AT) DSAIL@KAIST Project Representation Continual Learning Project NAVER Shopping (AT) DSAIL@KAIST Project Representation Continual Learning Dec. 2023 - Present Project Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Algorithms Algorithms Algorithms Algorithms Al Specialist Course - Samsung Electronics Graph Machine Learning and Recommendation Systems Graph Machine Learning 		Programming Language Research Group (A	
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Project Hana Bank (AT) DSAIL@KAIST Feb. 2021 - Feb. 2022 Project: Recommendation Systems for Financial Products by Graph Representation Learning Feb. 2021 - Feb. 2022 Straph Representation Learning Graph Representation Learning Recommendation Systems Jul. 2022 - Jul.2023 Project: Learning Continual Universal User Representation for Recommendation Jul. 2022 - Jul.2023 NAVER Shopping (AT) DSAIL@KAIST Jul. 2022 - Jul.2023 Project: Learning Continual Universal User Representation for Recommendation NAVER Shopping • Continual Learning Dec. 2023 - Present Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Dec. 2023 - Present • Recommendation Systems Teaching EXPERIENCE Mar. 2022 - Jun. 2022 Data Structure, Algorithms - KEB Hana Bank Mar. 2022 - Jun. 2022 • Data Structure Algorithms KEB Hana Bank • Data Structure Algorithms Sep. 2023 • Data Structure Sep. 2023 Samsung Electronics • Data Structure Sep. 2023 Samsung Electronics • Graph Machine Learning Sep. 2023 Samsung Electronics	 Warning Systems for Infectious Disease 		
Project: Recommendation Systems for Financial Products by Graph Representation Learning KEB Hana Bank • Financial Products Graph Representation Learning • Recommendation Systems Jul. 2022 - Jul.2023 Project NAVER Shopping (AT) DSAIL@KAIST Jul. 2022 - Jul.2023 Project: Learning Continual Universal User Representation for Recommendation NAVER Shopping • Universal User Representation Continual Learning Project: NAVER Shopping (AT) DSAIL@KAIST Dec. 2023 - Present Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Dec. 2023 - Present • Large Language Model Teaching EXPERIENCE Mar. 2022 - Jun. 2022 Sta Structure, Algorithms - KEB Hana Bank KEB Hana Bank KEB Hana Bank • Data Structure Algorithms KEB Hana Bank • Data Structure Algorithms Sep. 2023 • Algorithms Sep. 2023	Study for Transmission of COVID 19 or other diseases		
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 Recommendation Systems Project NAVER Shopping (AT) DSAIL@KAIST Project: Learning Continual Universal User Representation for Recommendation Universal User Representation Continual Learning Project NAVER Shopping (AT) DSAIL@KAIST Project NAVER Shopping (AT) DSAIL@KAIST Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Data Structure Algorithms Data Structure Algorithms Sep. 2023 Feaching Assistant of Graph Machine Learning and Recommendation Systems Graph Machine Learning Samsung Electronics Samsung Electronics Samsung Electronics 			KEB Hana Bank
Project NAVER Shopping (AT) DSAIL@KAIST Jul. 2022 - Jul.2023 Project: Learning Continual Universal User Representation for Recommendation NAVER Shopping • Universal User Representation Continual Learning Project NAVER Shopping (AT) DSAIL@KAIST Dec. 2023 - Present Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Dec. 2023 - Present • Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Mar. 2022 - Jun. 2022 KEB Hana Bank KEB Hana Bank Teaching Assistant of Data Structure, Algorithms KEB Hana Bank • Data Structure Algorithms • Algorithms Sep. 2023 Freaching Assistant of Graph Machine Learning and Recommendation Systems Sep. 2023 • Graph Machine Learning Samsung Electronics	Graph Representation Learning		
Project: Learning Continual Universal User Representation for Recommendation NAVER Shopping • Universal User Representation Continual Learning Project NAVER Shopping (AT) DSAIL@KAIST Dec. 2023 - Present Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Dec. 2023 - Present • Recommendation Systems Large Language Model Dec. 2022 - Versent Teaching EXPERIENCE Mar. 2022 - Jun. 2022 KEB Hana Bank Recohing Assistant of Data Structure, Algorithms KEB Hana Bank KEB Hana Bank • Data Structure Algorithms Sep. 2023 Facching Assistant of Graph Machine Learning and Recommendation Systems Sep. 2023	Recommendation Systems		
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Continual Learning Project NAVER Shopping (AT) DSAIL@KAIST Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems Recommendation Systems Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Teaching Assistant of Data Structure, Algorithms Data Structure Algorithms Al Specialist Course - Samsung Electronics Graph Machine Learning and Recommendation Systems Graph Machine Learning	Project: Learning Continual Universal User Representation for Recommendation		NAVER Shopping
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Project: Research and Development on Integrated Large Language Models for Enhanced Recommendation Systems NAVER Shopping • Recommendation Systems • Large Language Model • Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Mar. 2022 - Jun. 2022 Teaching Assistant of Data Structure, Algorithms KEB Hana Bank • Data Structure KEB Hana Bank • Data Structure Sep. 2023 Teaching Assistant of Graph Machine Learning and Recommendation Systems Sep. 2023 • Graph Machine Learning Samsung Electronics	Continual Learning		
 Recommendation Systems Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Data Structure, Algorithms Data Structure, Algorithms Mar. 2022 - Jun. 2022 <i>KEB Hana Bank</i> Data Structure Algorithms Algorithms Graph Machine Learning and Recommendation Systems Graph Machine Learning 	Project NAVER Shopping (AT) DSAIL@KAIST		Dec. 2023 - Present
 Large Language Model Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Data Structure, Algorithms Data Structure, Algorithms Data Structure Algorithms Al Specialist Course - Samsung Electronics Graph Machine Learning and Recommendation Systems Graph Machine Learning 	Project: Research and Development on Integrated Large Language Models for Enl	nanced Recommendation Systems	NAVER Shopping
Teaching EXPERIENCE Data Structure, Algorithms - KEB Hana Bank Mar. 2022 - Jun. 2022 Teaching Assistant of Data Structure, Algorithms KEB Hana Bank • Data Structure KEB Hana Bank • Algorithms Sep. 2023 Teaching Assistant of Graph Machine Learning and Recommendation Systems Sep. 2023 • Graph Machine Learning Samsung Electronics	-		
Data Structure, Algorithms - KEB Hana Bank Mar. 2022 - Jun. 2022 Teaching Assistant of Data Structure, Algorithms KEB Hana Bank • Data Structure Algorithms • Algorithms Sep. 2023 Teaching Assistant of Graph Machine Learning and Recommendation Systems Samsung Electronics • Graph Machine Learning Samsung Electronics	Large Language Model		
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AI Specialist Course - Samsung ElectronicsSep. 2023Teaching Assistant of Graph Machine Learning and Recommendation SystemsSamsung Electronics• Graph Machine LearningSamsung Electronics			
Teaching Assistant of Graph Machine Learning and Recommendation Systems Samsung Electronics • Graph Machine Learning Samsung Electronics	Algorithms		
Graph Machine Learning	AI Specialist Course - Samsung Electronics		Sep. 2023
	Teaching Assistant of Graph Machine Learning and Recommendation Systems		Samsung Electronics
	Graph Machine Learning		
Recommendation Systems	Recommendation Systems		
DS503: Machine Learning for Data Science Feb. 2024 - Jun. 2024	DS503: Machine Learning for Data Science		Feb. 2024 - Jun. 2024

KAIST

Teaching Assistant of Machine Learning

Basic Machine Learning
