

Jehyun Park

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RESEARCH INTERESTS

- Theoretical foundations of neural network generalization and optimization
- Function space and Circuit based understanding of Neural Networks
- Meta-learning and few-shot adaptation in distribution shift scenarios

EDUCATION

Mar 2020 — Present	Sungkyunkwan University BS., Computer Science and Engineering GPA: 3.91/4.5	Suwon, Korea
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HISTORY

Mar 2025 — Aug 2025	Undergraduate Research Intern, Yonsei University ML/AI Lab <ul style="list-style-type: none">Conducted Research in Few-shot Learning, Task Vectors, Test-Time-TrainingImplemented algorithms and methods on task vectors in In-Context-LearningFocused on Solving Out-Of-Distribution Problem, Catastrophic forgettingUnder the supervision of Prof. Kyung Woo Song	Seoul
Sep 2024 — Feb 2025	AI Researcher, The Catholic University of Korea St. Vincent's Hospital <ul style="list-style-type: none">Implemented machine learning algorithms for fall risk prediction protocolFeature engineered and handled imbalanced dataset with methods such as K-NN imputer, t-SNE,Extracted meaningful vector for categorical features using Sent2Vec.Implemented Imbalanced-XGBoost based pipeline and achieved the best <i>f1-score</i>.	Suwon
Jun 2024 — Aug 2024	Undergraduate Research Student, iisLab <ul style="list-style-type: none">Participated seminars for subjects such as Diffusion, Active-Learning, Flash-AttentionPresented in Machine Learning Seminars in iisLabUnder the supervision of Prof. Ji Hyung Lee	SKKU
Mar 2024 — Jun 2024	Artificial Intelligence College Conference, TNT <ul style="list-style-type: none">Participated in AI College Conference Test aNd Train for weekly studiesPrepared and Presented Papers about self-RAGs and Sliding Window Attention, RL	SKKU
Jun 2023 — Aug 2023	Industry-Academia Collaboration Software Intern, SOYNET <ul style="list-style-type: none">Participated in a year-long Industry-Academia Collaboration Project between SKKU & <u>SoyNet</u>Worked at the Company as a Software Engineer for 2 monthsPorted Pytorch-based models to Tensorflow-based SOYNET Acceleration EngineKIST University Person RE-ID model Optimization Applied at National Safety SQI Soft Task	Seong Nam

AWARDS & PROJECTS

Aug 2025 — Sep 2025	2025 Samsung AI Challenge 1st Prize Winner	Suwon
	<ul style="list-style-type: none">• Theme: Methods to Reduce Large Model Size Without Performance Degradation• <i>Individually</i> competed on optimizing and compressing Large Language Model• Implemented <i>Context-aware-Expert-Merging-and-Pruning</i> Method on Qwen-30B-A3B Model• Compressed 30B Parameters to 23.9B by training-free Expert Merging and Pruning• 1st prize winner and Awarded 7,500\$ from Samsung AI Center	
Jul 2024 — Feb 2025	20th Korean Economic Securities Derivatives Competition 2nd Place	Seoul
	<ul style="list-style-type: none">• Designed an ETF for IPO stocks in KOSPI & KOSDAQ Stock Market as part of a Team• Used GMM and t-SNE, Weighted K-NN for Unsupervised similarity analysis• Implemented Portfolio Revenue Optimization using convex optimization method<ul style="list-style-type: none">: Disciplined Convex Programming and SLSQ Programming• 2nd place and Awarded 4,500\$ with Korea Exchange Chairman's Award	
Jul 2024 — Jan 2025	LLM-based Recommendation System Health care Startup, iKooB	Seoul
	<ul style="list-style-type: none">• “Exploration of AI model architecture based on transfer learning Development of model data management platform” Collaborating with <u>iKooB</u>• Optimized a finetuned Llama-3 based 8B model on medical domains, implemented TF-IDF method and Chain-of-Thought (COT), Prompt tuning for Prototype model• Implementation stack: vllm, langchain, ngrok, flask• Received Engineering Innovation Award from SungKyunKwan University	
Dec 2023 — Jan 2024	Winter Global Capstone Design Project, AIIT & SKKU	Tokyo, Japan
	<ul style="list-style-type: none">• Proposed a Mobility Cloud infrastructure solution for the FSD era• Collaborated with Tokyo AIIT University and participation in seminars and presentations• Presented an effective construction scenario for signaling system cloud infrastructure for mobility Scenario proposal for integrated cloud and AI-based solutions	
Sep 2023 — Dec 2023	2023 NH Investment & Securities Big Data Competition Finals	Seoul
	<ul style="list-style-type: none">• Designed and trained a Vanilla Transformer Encoder for correlation analysis (<u>Fin2Vec</u>)• Used 1D-CNN, GRU for stock price data compression and tokenization• Implemented Self-Supervised Learning algorithm based on Self-Distillation and EMA (data2vec)	
Jun 2023 — Dec 2023	Development of SNS platform exclusively for college students	SKKU
	<ul style="list-style-type: none">• Sungkyunkwan University Startup Support Group: A SNS App development project: (<u>CLIPPED</u>)• Participated as a Project Manager and Frontend Developer• Implementation stack: Flutter, AWS, next.js	
Jan, Sep 2020 / Sep 2023	Sungkyun Software Scholarship for bachelor's scholarship	SKKU
	<ul style="list-style-type: none">• <i>Sungkyun Software Scholarship</i> Received from SungKyunKwan University• 3000\$ for each 3 Semesters, total amount of 9000\$ scholarship received.	

PUBLICATIONS

Adaptation in Out-Of-Distribution via Sparse Autoencoders in Vision Transformers

Korean Institute of Information Scientists and Engineers 2025 (bachelor's thesis')

Je Hyun Park*

Development of an Artificial Intelligence Algorithm for Fall Prediction (Poster Presentation)

Korean Society of Medical Informatics (KOSMI) Fall Conference, November 2025

Jaheon Park*, Yeon Woong Chung, M.D., Ph.D.^{†‡}, Seung Hyun Ko, M.D., Ph.D. Ph.D.[§]

Development of an Artificial Intelligence Algorithm for Fall Prediction (Poster Presentation)

Korean Society of Artificial Intelligence in Medicine (KOSAIM) Annual Conference, October 2025

Yeon Woong Chung, M.D., Ph.D.^{†‡}, **Jaheon Park***, Seung Hyun Ko, M.D., Ph.D. Ph.D.[§]

SKILL	Programming	
Python	Various machine learning & processing libraries such as <u>Pytorch</u> , <u>scikit-learn</u> , <u>Numpy</u> , <u>cupy</u> , <u>cxypy</u>	3
C, C++	Conducted many system-architecture college projects XV6, Spike-simulator, ns3, mini-shell	2
CUDA	Optimization of pytorch functions : im2col, and XGBoost Minimal Variance Sampling methods	1
Next, Node.js	Web Projects using Next.js and Node.js with tailwind-css	1
Flutter	Developed front-end app for the SNS platform	1
Language		
Korean (Native)		
English (Fluent) (TOEIC: 930)		
