Jehyun Park

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Research Interests

- Theoretical foundations of neural network generalization and internal dynamics
- Function-space analysis and complexity measures in deep learning
- Neural ODEs and interpretability methods on Neural Architectures
- Meta-learning and few-shot adaptation in distribution shift scenarios

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EDUCATION

Mar 2020 — Present

Sungkyunkwan University, Suwon, Korea
BS., Computer Science and Engineering
GPA: 3.90/4.50

HISTORY

Mar 2025 — Present

Undergraduate Research Intern, Yonsei University ML/AI Lab — Seoul

- Currently under Research in Few-shot Learning and Context Vectors, Test-Time-Training
- Conducted & Implemented research on task vectors in In-Context-Learning
- Focus on Solving Out-Of-Distribution Problem, Catastrophic forgetting
- Under the supervision of Prof. Kyung Woo Song

Sep 2024 — Feb 2025

AI Researcher, The Catholic University of Korea St. Vincent's Hospital — Suwon

- Implementing machine learning algorithms to create protocol
- Feature engineering patient data and handling imbalanced dataset with methods such as K-NN imputer, t-SNE, Tomek-links.
- Extracting meaningful vector for categorical features using Sent2Vec.
- Using Imbalanced-XGBoost and handled hyperparameters to successfully achieve the desired f1-score.

Jun 2024 — Aug 2024

Undergraduate Research Student, iisLab — SKKU

- Attended as an undergraduate research student in iisLab led by prof. ji-hyung Lee
- Participated seminars for subjects such as Computer Vision, Natural Language Processing
- Presented in Machine Learning Seminars for subjects such as Unsupervised Learning, Optimization methods, Recurrent Neural Networks
- Under the supervision of Prof. Ji Hyung Lee

Mar 2024 — Jun 2024

Artificial Intelligence College Conference, TNT — SKKU

- Participated in AI College Conference Test aNd Train for weekly seminars
- Prepared and Presented Papers about self-RAGs and Sliding Window Attention Mechanisms
- Joined and conducted studies about the basics of Reinforcement Learning

Jun 2023 — Aug 2023

Industry-Academia Collaboration Software Intern, SOYNET Seong Nam

- Participated in a year-long Industry-Academia Collaboration Project between SKKU & Soynet
- Learned the basics theories of machine learning & Coding skills
- Worked at the Company as a Summer Internship for 2 months
- Pytorch, CUDA, C++ for AI Inference acceleration and model optimization
- KIST University Person RE-ID model Optimization Applied to National Safety SQI Soft Task

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Project & Awards

Jul 2024 — Feb 2025

20th Korean Economic Securities Derivatives Competition 2nd Place Seoul

- Worked on by the purpose of designing an ETF for IPO stocks
- Used Gaussian-Mixture-Model and t-SNE, Weighted K-NN for finding the characteristics of newly IPO companies with Original KOSPI & KOSDAQ market prices
- For implementing Portfolio optimization used convex optimization methods such as Disciplined Convex Programming and SLSQ Programming
- Participated in the competition as a Research Engineer and took 2nd place
- Received Korea Exchange Chairman's Award

Jul 2024 — Jan 2025

LLM-based Recommendation System Health care Startup, iKooB Gangnam, Seoul

- Started off as a SKKU Research Project for “Exploration of AI model architecture based on transfer learning Development of model data management platform”
- Collaborating with iKooB, experimented with various methods such as transfer learning on LLMs and Graph Attention Networks (GAT) for Implementing Recommendation system
- Using 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

- Started a project Proposing a Mobility cloud infrastructure solution for the FSD era
- Collaboration with Tokyo AIIT University and participation in seminars and presentations
- Proposed an effective construction scenario for signaling system cloud infrastructure for mobility Scenario proposal for integrated cloud and AI-based solutions

Sep 2023 — Dec 2023

NH Investment & Securities Big Data Competition Finals Seoul

- Designed and trained a Transformer-based correlation analysis model between stocks (Fin2Vec)
- Used 1D-CNN, GRU for stock price data compression
- Implemented Transfromer Encoder architecture for correlation analysis and implemented Self-Distillation training algorithm

Jun 2023 — Dec 2023

Development of SNS platform exclusively for college students SKKU

- With support from Sungkyunkwan University Startup Support Group started a SNS app development project: (CLIPPED)
- Purpose of launching a Startup and Conducted actual testing.
- Participated as a Project Manager and Frontend Developer
- Implementation stack: Flutter, AWS, next.js

SKILL

Programming

Python	Various machine learning & processing libraries such as Pytorch, scikit-learn, Numpy, cupy, cxypy	3
C, C++	Conducted many system-architecture college projects such as XV6, Spike-simulator, ns3, mini-shell	2
CUDA	Conducted acceleration tasks to Pytorch functions such as im2col, and XGBoost Minimal Variance Sampling methods	1
Next, Node.js	Developed 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)