

Hyeokgi Kim

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Summary

Undergraduate student majoring in Electrical and Computer Engineering with a strong interest in applied machine learning, deep learning, and reinforcement learning. Experienced in developing AI agents and neural network models using Python and PyTorch with hands-on projects such as reinforcement learning agents and transformer-based models.

Education

Seoul National University

Electrical & Computer Engineering

GPA: 4.3 / 4.5

2024 - Present

Gyeonggi Science High School for the Gifted

GPA: 4.27 / 4.3

Graduated 2023

Technical Skills

- **Programming Languages:** Python, C++, JavaScript
- **AI/ML framework:**
 - **Deep Learning:** Pytorch, TensorFlow, Huggingface Transformers
 - **Reinforcement Learning:** OpenAI Gym
 - **Classical Machine Learning:** Scikit-learn

Research & Topics

Hardware-Aware Sequentialization of CNN Kernels for RNN AI accelerator 2025

Rainbow DQN-based agent for a Tetris-playing AI 2025

Building Transformer from scratch & inference on local NPU 2024

Analytic model of horizontal Brazil nut effect by void filling 2023

- Graduation research in physics

Awards & Professional Experience

Research Intern, LIST, Seoul National University

May. 2025 - Aug. 2025

National Scholarship for Outstanding STEM Students

Since 2024

Student Member, Deepest(research group)

Since 2025