# 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: 4.17 / 4.3                                                                          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

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|---|---|
| **Longitudinal brain MRI reconstruction with Diffusion/Flow model** | 2025 |
| **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

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|---|---|
| **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 |