

# DongWoo Goo

ELECTRONIC ENGINEERING & COMPUTER SCIENCE STUDENT

☎ (+82) 010-5472-9207 | ✉ wendy1301@naver.com | 📱 GooDongWoo

## Education

### B.S. in Electronic Engineering and Computer Science (Double Major)

KYUNG HEE UNIVERSITY

Seoul, Korea

Mar. 2019 - Feb. 2025

- GPA: 4.31/4.5

## Achievements

### ACADEMIC COMPETITIONS

2024

- Kyung Hee University Programming Competition - Second Place
- International Collegiate Programming Contest(ICPC) Seoul Regional - Ranked 44th nationally
- Best Poster Award - Kyung Hee University Undergraduate Research Conference

## Research Experience

### RESEARCH PUBLICATIONS

2024

- Co-first author, "Multi-Exit Faster R-CNN(MEF): An Approach to Control the Optimal Tradeoff between Latency and Accuracy under Time-Varying Computing Resources" - Published in The Journal of Korean Institute of Communications and Information Sciences (J-KICS)
- Submitted "Dynamic Ensemble Strategy for Multi-Exit Neural Network: Enhancing Model Performance through Entropy-based Exit Selection" to Image and Vision Computing (SCIE journal) - Under review

## Projects

### MULTI-EXIT NEURAL NETWORK PROJECTS

- Implemented dynamic ensemble strategy for multi-exit networks using PyTorch
- GitHub: me\_ensemble, multi-exit-resnet, MEV, BranchyNet
- Achieved optimal trade-off between latency and accuracy

### FEDERATED LEARNING RESEARCH

- Implemented FedAVG and Hierarchical FL algorithms
- Improved model performance while preserving data privacy
- GitHub: hier\_FL, FedAVG

### CHROME EXTENSION DEVELOPMENT

- Developed Kyunghee Score Alarm extension using JavaScript
- Automated grade checking process for university students
- Over 500+ active users

## Technical Skills

**Languages** C++, Python, Oracle

**Frameworks** PyTorch, TensorFlow, NumPy, Pandas

**Developer Tools** Git

**Others** LaTeX, AutoHotkey, Web Crawling

## Languages

**Korean** Native

**English** Conversational