Cho Seok-lea

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Summary

Senior student in IT Convergence Engineering at Hansung University, focusing on AI model optimization, edge/mobile inference, and efficient system implementation.

Experience

Prof. Jinwoo Gong Research Group, Undergraduate Researcher — Hansung University, Seoul
Dec 2025 – present
1 year

- Researching trustworthy federated and distributed AI, including privacy leakage, poisoning, adversarial manipulation, and robust defenses.
- Designing learning frameworks that combine federated unlearning with Bayesian uncertainty estimation to improve reliability, accountability, and security.
- Improving the scalability and efficiency of federated learning through resource-aware sparsification without sharing client data.

High-Performance Computing Lab, Chung-Ang University, Research Intern — Korea
Apr 2026 – Feb 2027
11 months

LG Aimers 4th, Participant — Jan 2024 – Mar 2024
3 months

- Completed AI education and project-based learning program.

BoostCourse Coaching Study 13th, Participant — Oct 2023 – Nov 2023
2 months

- Completed coaching study activities through BoostCourse.

Education

Hansung University, IT Convergence Engineering, Intelligent System and IoT Track — Seoul, South Korea
Mar 2021 – Feb 2027

Publications

Evaluating Generalization and Data Leakage in Large Language Models via Data Perturbation
Perturbation-based robustness test for checking data leakage and generalization in large language model evaluation.
Kim, Taemin, Cho, Seoklea
cho-sr.github.io/assets/pdf/evaluating-generalization-data-leakage.pdf (IEIE Conference, 2025)

Projects

VideoQna
Local video search app that lets users ask questions and retrieve matching scenes, subtitles, summaries, and keywords from indexed video content.

- Video question answering
- Scene and subtitle retrieval

Pocket-Coach
IoT capstone app for soccer video analysis with player/ball tracking, highlight feedback, USB MIDI servo control, and ExecuTorch NPU on-device detection.

- Soccer video analysis
- ExecuTorch NPU inference prototype

YOLO in iOS with NPU
Swift iOS app for YOLO detection with ExecuTorch inference, live camera mode, still-image tests, and bbox overlay.

- On-device object detection
- iOS live camera inference

Awards

- Hansung University, Internet of Things Track Capstone Design Excellence Award (2nd place)
- Hansung University, Intelligence System Track Capstone Design Excellence Award (2nd place)

Skills

AI and Edge Systems