YEONGYOO JO

Software Engineer

Passionate Machine Learning Engineer with hands-on experience in integrating deep learning algorithms with embedded systems. Adept at innovative problem-solving and decision-making, with a commitment to continuous learning and application of solid theoretical knowledge to practical scenarios.

PROGRAM EXPERIENCES

Inha University DSP Lab
Jun. 2023 ~ Aug. 2023

- Studied foundational principles of deep learning, including CNNs and RNNs.
- Reviewed various research papers on speech recognition and Natural Language Processing (NLP).

Inha University CVIP Lab
Dec. 2023 ~ Jun. 2024

- Analyzed research papers and codes related to Computer Vision, from AlexNet to Vision Transformers (ViT) and YOLO.
- Documented experiences and analyses on Velog, providing English translations for broader accessibility.

SEA:ME
Aug. 2024 ~ Jun. 2025

- Completed SEA:ME, an industry-academia program sponsored by Volkswagen, providing hands-on training in embedded systems and AI for smart mobility.
- Contributed to projects including Instrument Cluster, Head Unit, Lane Detection, and Object Detection.

Projetcs

DES - Instrument Cluster
Sep. 2024

- Created a car dashboard using the Qt framework
- facilitated communication between Raspberry Pi and other devices via CAN and Arduino interfaces.

DES - Head Unit
Oct. 2024 ~ Nov.2024

- Developed a head unit for cars using a custom OS built with the Yocto Project
- implemented phone mirroring functionalities using QT Framework.

Awards

Bosch Future Mobility Challenge
Best New Participant

- An international university competition for autonomous driving in urban environments using 1/10 scale vehicles
- Trained and optimized lane and object detection algorithms integrated into a ROS1-based control system
- experimented with Reeds-Shepp paths and reinforce learning

SKILLS

- C/ C++, Python, Git
- ATmega128 Raspberry Pi, RTabMap, Linux, Docker, ROS1, Gazebo
- QT, Flutter
- PyTorch, Tensorflow, OpenCV, Pandas

EDUCATION

Inha University

Senior

MAJOR
Electronic Engineering

MINOR
Philosophy

CONTACTS

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