**Kyucheol Shin**

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# Education

**Kwangwoon University**, Seoul, Korea *Mar. 2018 - Feb. 2024 (Expected)*

College of Software and Convergence

*Bachelor of Information Convergence* ***(GPA: 4.34/4.5)***

*7 Semester Early graduation (Expected)*

Relevant Coursework:

• Interactive AI (A+) • Natural Language Processing (A0)

• Deep Learning Programing (A+) • Artificial Intelligence application (A+)

# Relevant Experiences

**Explainable search engine research based on image generation models** *May. 2023 – Jun. 2023*

• Develop a model that takes text as input, generates images, and compares the generated images to other images to find similar images.

Role : Generative model fitting, Image similarity comparison model creation

**Virtual Environment-based Road Situation Awareness: Object Detection with EfficientDet** *Jul. 2023 – Aug. 2023*

• An object detection model for autonomous vehicles was developed with EfficientDet D2 to achieve fast prediction speeds of less than 100ms and high accuracy.

Role : Data preprocessing, Object detection model fitting

**Research on CVAE-based training data generation to improve accuracy of XGBoost models** *Aug. 2023 – Sep. 2023*

• Research on Performance Enhancement of an XGBoost Model Predicting Automotive Component Vibration Frequencies Through Data Augmentation with CVAE Due to Limited Data.

Role : Data preprocessing, Generative model fitting, GBDT model fitting, Compare performance etc.

# Research Interests

• Object Detection

• Generation Models

• Audio Denoising

• Audio Source Separation

# Awards and Honors

Academic Scholarship (3rd), Kwangwoon University, Korea *Sep.* *2018*

Academic Scholarship (1st), Kwangwoon University, Korea *Sep.* *2019*

Academic Scholarship (5th), Kwangwoon University, Korea *Sep.* *2022*

Academic Scholarship (3rd), Kwangwoon University, Korea *Mar.* *2023*

Global Talent Track course (Japanese) Aug. 2023