


JUSUNG LEE

Undergraduate Student

 Portfolio

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 Gumi, Korea



SUMMARY

I am a undergraduate student with a strong desire to harness the potential of artificial intelligence for the advancement and improvement of our global society.

SKILLS

Languages: Python, C++, C, AVR Microcontroller Programming

Libraries: Pytorch, Tensorflow, Pandas, scikit-learn, Keras

EDUCATION

2019-	Kumoh National Institute of Technology (KIT) The Department of Electronic Engineering GPA: 3.27/4.5 GPA(Major): 3.75/4.5	University
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PROJECTS

Jan-Feb 2023	Image Classification Project • For research and development of CNN models, I developed a multi-class classification CNN model using the Cifar-10 dataset, which achieved 90.8% training accuracy and 85.4% test accuracy	KIT AISL LAB
Apr-Jun 2023	Emotional(sentiment) classification project using Musinsa data • In this project, our team achieved first-place position • We designed an LSTM model and achieved an accuracy of 95.6%.	KIT OOP
Jul- Aug 2023	Summarize news and abstract keyword project • The dataset used the Naver Developer API to use the headline news source data • The sentence transformer model was used as the model used in keyword extraction • the keyword was extracted by category using the max sum similarity algorithm	KIT SIG
Sep- Oct 2023	Image Colorization using GAN • It followed the principles outlined in the pix2pix research paper. • The dataset employed in this project was the COCO dataset	Meatcode

ON GOING PROJECTS

Object Detecton	Library librarian robot to help librarians • This project aims to develop a self driving robot designed to support Additionally, it offers assistance to library patrons, including guiding them to the specific locations of books within the library • The robot used in the project is Transbot and the module used is NVIDIA Jetson orin NX.	KIT
Object Detecton	Robots for dealing with obstacles around Braille blocks for the visually impaired for blind people • The robot used in the project is Transbot and the module used is NVIDIA Jetson orin NX. • The AI used Yolo v7 and will re-learn data on Braille blocks for the visually impaired and rides such as electric kickboards.	KIT

EXPERIENCE

Dec2022-Feb2023	AISL LAB • developed a classification network • received in-depth instruction in deep learning from both master's and doctoral students	Undergraduate Research Student
Aug 2023 -	CVPR LAB • Review of the latest papers and implement models based on thesis • Presentation activities after studying the basics of probability and statistics, linear algebra, and artificial intelligence	Undergraduate Research Student
Sep 2023-	METACODE • The management of the Big Data and Artificial Intelligence Society • Intern in management and consulting planning of the society	The management of the society

QUALIFICATIONS

- JLPT N2

RESEARCH INTEREST

Computer Vision	Object Detection Object detection in real time, Object detection for robot
Computer Vision	Image Generation 2D Image Generation, 3D Image Generation
Computer Vision	Semantic Segmentation Video Semantic Segmentation, Image Semantic Segmentation, 3D Semantic Segmentation

ADDITIONAL INFORMATION

Nov 10-Nov 12 2022	Meta Code Machine Learning Course 2 <ul style="list-style-type: none">• Lectures covering the fundamentals of machine learning, model implementation, and training
Dec 23-Jan 18 2023	Fast Campus Deep Learning LEVEL RUN <ul style="list-style-type: none">• A lecture directly focusing on the implementation of deep learning models for 2D or 3D object detection, as well as 2D or 3D image classification.
Jun 24-Jun 25 2023	Meta Code PYTHON STUDY <ul style="list-style-type: none">• A lecture that encompasses programming and essential libraries for deep learning, including Python, Pandas, and Keras
Jul 12-Jul 14 2023	IDEC Deep Learning Foundation and Design <ul style="list-style-type: none">• A lecture aimed at facilitating comprehension and the design of the structure and principles underlying deep learning
Sep 2023-Oct 2023	Meta Code GAN implementation <ul style="list-style-type: none">• A lecture focused on comprehending GAN and the hands-on design and implementation of GAN models

SCHOLARSHIP AWARD HISTORY

2022-2023	National Science & Technology Scholarship from Korea Student Aid Foundation excellent grades
2022-2023	Academic Excellence Scholarship from KIT Higher grades compared to the previous semester

CLUB ACTIVITIES

2019-2022	Kumoh Golden Ravens <ul style="list-style-type: none">• 2019 and 2022 Daegu Gyeongbuk National University Spring American Football League 2019 Fall League 2nd place• 2022 Fall League 3rd place• 2019 National University American Football League Quarterfinals, 2022 National University League 2nd place
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