JUSUNG LEE

Undergraduate Student

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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, Keras, Pandas, scikit-learn, numpy

EDUCATION

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

RESEARCH INTEREST

Computer Vision · **Object Detection**
Object detection in real time, Object detection for robot

Computer Vision · **Image Generaton**
2D Image Generagtion, 3D Image Generaton

Computer Vision · **Semantic Segmentation**
Video Semantic Segmentation, Image Semantic Segmentation, 3D Semantic Segmentation

PROJECTS

Jan–Feb 2023 — **Image Classification Project** — **KIT AISL LAB**
•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

Apr–Jun 2023 — **Emotional(sentiment) classification project using Musinsa data** — **KIT OOP**
• Our team secured the top position.
• We designed an LSTM model and achieved an accuracy of 95.6%.

Jul- Aug 2023 — **Summarize news and abstract keyword project** — **KIT SIG**
• Crawled data using Naver API for securing the headline news
• 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

Sep– Oct 2023 — **Image Colorization using GAN** — **Meatcode**
• The work was conducted according to the principles outlined in a research paper on pix2pix, and the dataset employed was the COCO dataset.
• From initial data preprocessing to training, it was done independently.

ON GOING PROJECTS

Object Detecton — **Library librarian robot to help librarians** — **KIT**
• 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.

Object Detecton — **Robots for dealing with obstacles around Braille blocks for the visually impaired for blind people** — **KIT**
• 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.

EXPERIENCE

Dec2022–Feb2023 **AISL LAB**   **Intern**
- developed a classification network for detect mask defects.
- received in-depth instruction in deep learning from both master's and doctoral students

Aug 2023 -   **CVPR LAB**   **Intern**
- 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

Sep 2023-   **METACODE**   **Intern**
- The management of the Big Data and Artificial Intelligence Society
- Intern in management and consulting planning of the society

QUALIFICATIONS

- JLPT N2

ADDITIONAL INFORMATION

Nov 10-Nov 12 2022 **Meta Code Machine Learning Course 2**
- Lectures covering the fundamentals of machine learning, model implementation, and training

Dec 23-Jan 18 2023 **Fast Campus Deep Learning LEVEL RUN**
- 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**
- 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**
- 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**
- A lecture focused on comprehending GAN and the hands-on design and implementation of GAN models

HONORS & AWARDS

2022-2023   **National Science & Technology Scholarship**
Korea Student Aid Foundation

2022-2023   **Academic Excellence Scholarship**
KIT

CLUB ACTIVITIES

2019-2022   **Kumoh Golden Ravens**
- 2019 and 2022 Daegu Gyeongbuk National University Spring American Football League 2019 Fall League 2nd place
- 2022 Fall League 3nd place
- 2019 National University American Football League Quarterfinals, 2022 National University League 2nd place