Gilkyeong Yu

AI Researcher

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Education

Dong-A University, Undergraduate in Department of AI Engineering 2022.03 –
GPA: 3.81/4.5

Work Experience

Media For Machine Laboratory, Undergraduate Researcher 2024.07 –
- Studied about Deep Learning and Computer Vision.
- Experiments to change the inner codec of the VCM and FCM to a deep learning based codec.

Projects

2024 RIS Regional Issue Capstone Design 2024.11 – 2025.02
Role: Researcher
- Developed 3D modeling technology for shoe sketches for digital fashion.
- Tools and technologies used: A100, python, opencv-python

Data augmentation method for camouflage object detection 2024.09 – 2024.11
Role: Researcher
- Improved the performance of the YOLOv7 model for camouflage object detection.
- Tools and technologies used: Pytorch, Object Detection, Inpainting

Facial recognition based attendance management system 2024.09 – 2024.11
Role: Researcher
- Improved performance of YOLOv7 model for face detection.
- Tools and technologies used: Object Detection

Developement of Deep Learning based Closed Caption Extraction Technology 2024.04 – 2024.11
Role: Researcher
- Developed deep learning-based subtitle extraction technology through Whisper, an openAI technology.
- Tools and technologies used: RTX4070, Python, openai-whisper, Tiktoken, Pytorch

Deep Learning-based Quality Enhancement Method for Marine image 2024.03 – 2024.06
Role: Researcher
- Development of a model to improve marine image quality.
- Tools and technologies used: Pytorch, QTdesigner

Deep learning-based sign language translation service 2023.08 – 2023.12
Role: Researcher
- Development of translation model for Korean sign language.
- Tools and technologies used: Pytorch, Matplotlib

Paper

Whisper model Fine-Tuning using news data 2024.08
Korea Multimedia Society Autumn Conference 2024

Skill

Programming: Python, C, C++, JavaScript
Tools: Git, Docker, LaTeX, TensorFlow, PyTorch
Languages: English (Fluent), Korean (Native)
Area of Interest: Computer Vision, Video Compression, Deep Learning

Achievement

Conference Award 2024.11
DAU AI SW DevDay 2024.11
Software Performance Sharing Forum 2024.08
DAU AI SW DevDay 2023.12

Appendix - Name

Project results: https://example.com/link1

Description of the appendix item. This can be a brief explanation or additional details.