Chanhyuk **Choi**

CSE Undergraduate Student @ UNIST

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"Currently learning to walk in ML/DL to CV/NLP without falling on my bottom."

Education

UNIST (Ulsan National Institute of Science and Technology) *Ulsan, S.Korea*
B.S. in Computer Science and Engineering *Mar. 2018 - Mar. 2025*
- 3.7/4.3 (GPA), Magna Cum Laude

Research Experience

AI Center in CJ Corp. *Seoul, S.Korea*
AI research Intern *Aug. 2023 - Feb. 2024*
- Conducted research on **stable diffusion models** that could synthesize a preview of K-drama based on a summarized scenario [PREVIEW]
- Developed a data collection pipeline that extracts high-quality images from highlight scenes in K-dramas

ShapeLab *Ulsan, S.Korea*
AI research Intern *Jul. 2023 - Aug. 2023*
- Developed a deep learning strategy to address Age Prediction and Alzheimer's Disease Classification based on SPHARM-Net
- Advisor: Prof. Ilwoo Lyu

Project

Chest X-Ray Radiology Reports Generation with Pre-trained CLIP Model *Ulsan, S.Korea*
Jungmin Park, Dami Jung, **Chanhyuk Choi** *Mar. 2023 - Jun. 2023*
- UNIST CSE402 Natural Language Processing [Github] [PDF]

All-around Fitness App Project with AI Pose correction, Work-out machine Image search *Ulsan, S.Korea*
Yonghyun Kim, Jeongmin Park, Sangeun Seo, Jaeyeop Oh, Jongmin Kim, **Chanhyuk Choi** *Mar. 2022 - Jun. 2022*
- UNIST CSE333 Introduction to Human-Computer Interaction **Best Presentation Recognition** [Google Drive] [YouTube]

Certificate

Comuputer Specialist in SpreadSheet & Database (Level-1) *S.Korea*
Korea Chamber of Commerce and Industry *Oct. 2021*

Extracurricular Activity

Working Holiday *Auckland, New Zealand*
Upper-Intermediate Level Student *Feb. 2024 - Jul. 2024*
- Auckland English Academy (AEA) [CERTIFICATE] [REPORT]

2023 ABC Winter School Program @ UNIST *Ulsan, S.Korea*
Teaching Mentor *Jan. 2023 - Feb. 2023*
- Teaching cs skills to sophomore students with missing semester @ MIT [DRIVE]

2022 AI cahllenger Program @ UNIST *Ulsan, S.Korea*
Research Intern *Oct. 2021 - Dec. 2021*
- Conducted research on **GAN mainpulation** using user inputs, such as sketch and text [POSTER]
- Advisor: Prof. Jaejoon Yoo

2021 OCR AI Learning Data Hackathon Finalist *Seoul, S.Korea*
Backend Developer *Oct. 2021 - Dec. 2021*
- Voice-based search applications for the visually impaired [PDF] [PRIZE]

Freshmen Student President @ UNIST *Ulsan, S.Korea*
SaeRok, 3rd Freshmen Student Counsil *Mar. 2019 - Feb. 2020*
- UNIST Freshment Counsil [FACEBOOK]

Patent

Method for Providing Box Office Prediction Results through Analysis of Text Content and Apparatus Therefor *US*
Application Number: 18396247 *2023/12/26*

Method and Device for Generating Natural Language-based Training Data Using Video and Script Files and Performing Image Generation and Inference Using the Training Data *US*
Application Number: 18784742 *2024/07/28*

Presentation

Tech Presentation @ CJ AI Center *Seoul, S.Korea*
Tech Instructor *Aug. 2023 - Feb. 2024*
- High-Resolution Image Synthesis with Latent Diffusion Models [PPT]
- Emu: Enhancing Image Generation Models Using Photogenic Needles in a Haystack [PPT]
- Style Aligned Image Generation via Shared Attention [PPT]