

Chanhee Lee

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Welcome to Chanhee Lee CV!

I am an undergraduate student majoring in Applied Artificial Intelligence at Sungkyunkwan University.

Research Interest: Multi-modal, Bias Mitigation, Generative AI.

Education

University of Sungkyunkwan

Mar 2021 - Present

BS in Applied Artificial Intelligence

- GPA: 4.23/4.5 (Overall), 4.33/4.5 (Major)

Projects

N-TIDE: Debiasing Unimodal Vision Models via Neutral Text Inversion
with CLIP, *Course Project*

May 2025 - Jun 2025

- Research on mitigating social bias in unimodal vision models by leveraging CLIP-based neutral-text inversion inspired by the null-text inversion in DDIM and knowledge distillation to train a debiased image-only classifier.
- <https://github.com/iontail/N-TIDE.git> 🔗

BRNet: a Bio-Receptor Networks for Object Detection with Zero-Shot
Domain Adaptation, *Undergraduate Research Program*

Mar 2025 - Jun 2025

- Research on the low- light object detection task with boosting domain adaptation between low-light and well-lit conditions, carrying out experiments to validate and refine the proposed methodology.
- <https://github.com/iontail/BRNet.git> 🔗

CoReaP: Collaborative Reconstruction with assitive priors, *AI Research*
Competition.

Jan 2025 - Mar 2025

- An image inpainting model leveraging Deformable Convolution Tokenization (DCT), integrated Early and Late Fusion strategies, and a two-stream learning architecture comprising high-frequency and low-frequency pathways connected via inclusion residual connections, with high-frequency information serving as a prior for low-frequency refinement
- <https://github.com/rkdrn79/CoReaP.git> 🔗

Digital Therapeutics(DTx) Research for Preventing Relapse in Online
Gambling Addiction, *Course Project*

Sep 2024 - Dec 2024

- Designed and trained the model architecture for gambling addiction relapse detection using a Transformer-based small Large Language Model.
- <https://github.com/iontail/24.Spring.AI.git> 🔗

Analyzing Suitability of Introducing A.I. Job Interview about Connec-
tions Between Applicants' Instability and Accuracy of Answering using
Language Model, *Course Project*

Oct 2024 - Dec 2024

- Designed and trained a speech recognition model leveraging knowledge distillation from a text-based teacher model, effectively transferring learned representations to enhance instability classification performance.

Honors & Awards

Dacon 2025 Bias-A-Thon: Bias Responding Challenge, *AI Competition*

Jun 2025

- Developed prompt and retrieval-augmented generation (RAG) methods to generate fair and neutral re- sponses under biased scenarios as part of an academic challenge.
- Top 4.

Sungkyunkwan University brAIn Research Program (BRP) Award, *Research competition*

Feb 2025

- Research of A.I. model for image inpainting task.
- Top 2.

Scholarship

Academic Excellence Scholarship for 2024 Fall Semester

Jan 2025

College of Computing and Informatics

- Achieved a 4.36/ 4.5 for 21 Credits, Ranking in the Top 5%

Academic Excellence Scholarship for 2022 Spring Semester

Nov 2024

College of Computing and Informatics

- Achieved a 4.5/ 4.5 for 18 Credits, Ranking in the Top 3%

Programming Languages

- Python