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: Generative AI, Mitigating Bias, Multi-modal.

Education

University of Sungkyunkwan   *Mar 2021 - Present*
BS in Applied Artificial Intelligence
- GPA: 4.21/4.5 (Overall), 4.33/4.5 (Major)

Projects

N-TIDE: Debiasing Unimodal Vision Models via Neutral Text Inversion with CLIP, *Course Project*   *May 2025 - Present*
- Corrently Conducting research on mitigating social bias in unimodal vision models by leveraging CLIP-based neutral-text inversion inspired by the neutral-text inversion in DDIM and knowledge distillation to train a debiased image-only classifier.
- https://github.com/iontail/N-TIDE.git ↗

Darkness Adaptive Activation: Zero-Shot Domain Adaptation between Low-light and Well-Lit Conditions, *Undergraduate Research Program*   *March 2025 - Present*
- Currently conducting research for 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 Connections 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*   *June 2025*
- Developed prompt and retrieval-augmented generation (RAG) methods to generate fair and neutral responses 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