

# Chanhee Lee

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## Welcome to Chanhee Lee CV!

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

Research Interest: Video Summarization and Generative AI.

## Education

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**University of Sungkyunkwan** *Mar 2021 - Present*  
*BS in Applied Artificial Intelligence*  
◦ GPA: 4.26/4.5 (Overall), 4.37/4.5 (Major)

## Experience

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**Sungkyunkwan University**, Suwon, Republic of Korea *Sep 2025 - Dec 2025*  
*Research Intern (Advisor: Hankook Lee)*  
*Efficient Learning Laboratory* ↗  
◦ Received mentorship in paper analysis, presentation, and research-oriented PyTorch implementation.

## Projects

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**Rethinking Diffusion-Based Augmentation: Why Single Prompt Fails,** *Oct 2025 - Nov 2025*  
*Course Project*

- Research on diffusion based augmentation to analyze why single prompt generation fails to match the performance of multi prompt settings in image recognition. Explored how prompt diversity, hybrid mixing, and semantic inconsistencies influence generalization, providing insights into the underlying causes of performance degradation in diffusion augmented training.
- [https://github.com/iontail/gdl\\_term.git](https://github.com/iontail/gdl_term.git) ↗

**N-TIDE: Debiasing Unimodal Vision Models via Neutral Text Inversion** *May 2025 - Jun 2025*  
*with CLIP, Course Project*

- Research on mitigating social bias in unimodal vision models by leveraging CLIP-based neutral-text inversion inspired by the null-text inversion 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,** *Mar 2025 - Jun 2025*  
*Undergraduate Research Program*

- 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,** *Jan 2025 - Mar 2025*  
*AI Research Competition.*

- 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,** *Sep 2024 - Dec 2024*  
*Course Project*

- Designed and trained the model architecture for gambling addiction relapse detection using a Transformer-based small Language Model.
- [https://github.com/iontail/24\\_Spring\\_AI.git](https://github.com/iontail/24_Spring_AI.git) ↗

## Analyzing Suitability of Introducing AI 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, transferring learned representations to enhance instability classification performance.

## Honors & Awards

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### 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 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

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### 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%

## Certifications & Test Scores

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### Advanced Data Analytics Semi-Professional(ADsP)

Mar 2024

- Scores: 86/100

## Programming Languages

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- Python