Chaemin Hwang

Email : chaemin.hwang@yonsei.ac.kr

Research Interest

My research goal is to leverage AI to address real-world social challenges. I'm particularly interested in developing robust, fair, and trustworthy AI systems that can operate reliably under real-world constraints. Ultimately, I aim to advance AI that meaningfully supports society and drives positive real-world impact.

Education

- **Yonsei University** Seoul, South Korea
  B.S. in School of Sociology with a Minor in Applied Statistics (GPA: 3.89/4.30) *Mar. 2021 – Feb. 2026 (Expected)*

Research Experiences

- **Edge AI Lab, Yonsei University** Seoul, South Korea
  Undergraduate Intern (Advisor: Dongjun Han) *Aug.2025 - Nov.2025*
  - Personalized Domain Generalization in Non-IID Federated Learning

- **Social Networks & Neuroscience Lab, Yonsei University** Seoul, South Korea
  Undergraduate Research Assistant (Advisor: Yoosik Youm) *Jan.2023 - Jul.2023*
  - Research on Adolescents' Social Relationships and Mental Health

Team Projects

- **Photorealistic Image Generation with Diffusion Models** [Project Page]
  Analyzing AI-generated image detectors in the aspect of attention imbalance *Mar. 2025 – Current*

- **Monocular Dog Body Length Estimation**
  Developing dog body length prediction performance with depth estimation model *Sep. 2024 – Dec. 2024*

- **Memorial Pet Contents Generation***
  Memorial pet contents generation with ControlNet and LoRA-finetuned LLaMA *Feb. 2024 – Mar. 2024*

- **Audio Sentiment Classification**
  Enhancing real world emotion classification based on Frequency Decomposition *May. 2024 – Jun. 2024*

- **Sentiment Analysis for Restaurant Reviews**
  Developing an end-to-end sentiment analysis system for restaurant reviews *Feb. 2024 – May. 2024*

- **Performance Review Archiving Service**
  Implementation of web-based performance review archival system for university club *Sep. 2023 – Feb. 2024*

* Projects that serve as a team leader.

Honors and Awards

- **Mentoring Scholarship, Lotte Foundation**
  Math mentoring volunteering for middle school students at local children's center *Sep. 2022 – Feb. 2025*

- **Certification, 5th LG Aimers/Data Intelligence**
  Topic: Developing a product defect detection model based on Process Data *Aug. 2024*

- **CLIO Social Data Science Development Scholarship**
  May. 2023

Extracurricular Activities

- **Yonsei Data Science Lab**
  11th Regular Member *Dec. 2023 - Dec. 2024*

SKILLS AND TECHNIQUES

- **TEPS - 333**
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