

Seouh-won YI, Master Student

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Research Interests: Contextual Bandits, Reinforcement Learning, Statistical Learning

Education

- 2023 – **■ M.Sc. Candidate in Data Science, Seoul National University.**
Thesis title: *Exploration via Feature Perturbation in Contextual Bandits.*
Advisor: Min-hwan Oh
- 2017 – 2023 **■ B.Sc., Mathematics, Korea University, Summa cum laude**
B.A., Statistics, Korea University.

Projects

- 2022 **■ Facial Image Analysis.**
- Age and emotion analysis of facial image data using CNN modeling.
- Analyzing the emotion distribution of photos by age group based on the analyzed data.
- 2023 **■ Advanced Map for Pedestrians with Mobility Impairments.**
- Implementation of an enhanced pathfinding map reflecting slope using RDBMS and Neo4j.
- Augmented display of nearby facilities for pedestrians with mobility impairments.
- Web service implementation using Python Streamlit package.
- User-Friendly Movie Recommendation System**
- Recommendation system based on user input (mood, filter, anti-Filter, etc.).
- Plot-based recommendation system utilizing a database via LangChain.
- 2024 **■ Essay Writing Assistance for U.S. High School Students.**
- Providing an ideal essay draft for each prompt question using LangChain.
- Utilizing a Chain-of-Thought approach to self-generate feedback on the draft and revise the essay.
- Offering a visual and useful service using the Python Streamlit package.

Miscellaneous Experience

- 2019 – 2021 **■ Military Service, Republic of Korea Army.**

Competitions

- 2022 **■ 2022 Defense AI Competition, AI CONNECT.**
Building Change Detection Using Aerial Image Data (Using CNN), 43th / 110.
- 2024 **■ Auto-Bidding in Uncertain Environment, NeurIPS 2024.**
Designing an Online Second-Price Auction Bidding Strategy with *Alibaba cloud* data.

Awards and Achievements

- 2022 **■ Fund Scholarship (Dept. of Mathematics SIGMA, Korea University.**
■ President's Award, Korea University.
- 2021 **■ Dean's Award, Korea University.**
- 2019 **■ Dean's Award, Korea University.**
- 2018 **■ Special Scholarship for Student Affairs, Korea University.**

Miscellaneous Experience (continued)

2017  **Special Scholarship for Student Affairs**, Korea University.


Teaching Assistant


2023-Fall  **Machine Learning & Deep Learning for Data Science 1**, Seoul National University.

 **Data Science Basics & Applications**, Seoul National University.

2023-Summer  **Data Science Bootcamp: Mathematics/Statistics**, Seoul National University.

Skills

Languages  English(TEPS 447), Japanese(Intermediate), French(Elementary)

Coding  Python, R, C(C++), SQL, \LaTeX

Databases  MySQL, PostgreSQL, Neo4j.

Web Dev  HTML, CSS, Streamlit.