

Jibin Hwang

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Education

Hanyang University

Majoring in Data Science, Department of Data Science

March 2022 – Feb 2026

(expected)

- GPA: 4.33/4.5

Research Interest

Human-AI Interaction, Mobile Computing, User Experience Data Analysis

Projects

Smartphone Overuse Forecasting for Personalized Intervention

Jan 2025 - Feb 2025

Research Assistant in ICLAB, KAIST

- Built a time-slot smartphone-overuse predictor using K-Emophone dataset with a standardized data/feature pipeline
- Explored machine learning approaches and identified key behavioral drivers to inform intervention design

LLM-based Food Shopping Recommendation Application ‘EasyPick’ - Reducing Review Fatigue and Utilizing Price Tracking

Sep 2024 - Dec 2024

Group Project in Course of Human-Computer Interaction, Hanyang University

- Developed a recommendation web application that helps users choose food products by summarizing review data and tracking price trends
- Designed the user interface and implemented the frontend using React, with a focus on intuitive UX
- Utilized LangChain and RAG to provide personalized product recommendations based on user preferences and review summaries

Military Personnel Mental Health Service: Data Analysis and Improvement Proposals

Jun 2024 - Dec 2024

Research Assistant in Hanyang Digital Healthcare Center

- Analyzed mental health app log data using Azure Databricks
- Proposed UI/UX enhancements for app optimization through literature review and trend analysis
- Conducted a review of research papers on affective computing

Collaborative grocery purchase application ‘Gather Wish’

Jul 2024 - Aug 2024

Group Project in GDSC(Google Developer Student Clubs) Hanyang

- Developed a demo version of a collaborative purchasing platform
- Led end-to-end database development with PostgreSQL by creating ERD models, implementing schema design, and managing data integration for production database
- Developed a recommender system that utilizes Singular Value Decomposition to predict user preferences based on personal data

Speaker-Specific Multimodal Emotion Recognition

Apr 2024 - Jun 2024

Group Project in Course of Artificial Intelligence, Hanyang University

- Developed a system that detects speakers’ emotion using multimodal data with the [MELD dataset](#).
- Analyzed speaker utterance data with DistilBERT.
- Implemented person tracking and detection in video data using YOLOv4+DeepSort and performed facial emotion analysis using ResNet18.

Spatial Analysis of Air Pollution Effects on Climate in South Korea

Apr 2023 - Jun 2023

Project in Course of Machine Learning, Hanyang University

- Analyzed the impact of air pollutants (O3, NO2, PM10, etc.) on daily temperature data from eight cities

using datasets from Air Korea

- Employed five regression models, including Decision Trees, Random Forest, Gradient Boosting, AdaBoost, and Neural Networks, to assess model performance via cross-validation.
- Identified the most influential variables affecting climate change and utilized the ARIMA model to forecast future temperature trends

Integrating Nudge Theory to Counter Covibesity During the COVID-19 Pandemic

Sep 2022 - Dec 2022

Group Project in Course of Data Science Project, Hanyang University

- Proposed two methods for maintaining healthy habits
- Suggested optimal placement of water purifiers in the school cafeteria based on data collected from a field study and analyzed using independent t-test
- Proposed adjusted beverage placement in kiosks to reduce sugar intake by setting zero-calorie drinks as the default option and validated the hypothesis using a Two-sample Z test

Research Experiences

Undergraduate Research Assistant

Jul 2025 - Present

Hanyang University, IMCLAB

- Advisor: Youngtae Noh

Undergraduate Research Assistant

Jan 2025 - Feb 2025

Korea Advanced Institute of Science and Technology (KAIST), ICLAB

- Advisor: Uichin Lee

Digital Healthcare International Collaborative Researcher

Jun 2024 - Dec 2024

Hanyang Digital Healthcare Center

- Advisor: Kyungsik Han, Hyungsook Kim

External Activities

Wrtn GenAI Campus Leader

Mar 2024 - Jul 2024

Wrtn Technologies Inc., Microsoft

- Organized on-campus Generative AI Ideathon from zero-to-one
- Conducted on-campus Gen AI Onboarding Seminar, delivering comprehensive training on AI fundamentals and prompt engineering techniques
- Designed an AI-powered report writing assistant targeted at university students, based on user study and market analysis
- Participated in AI onboarding sessions with industry professionals from tech companies, Wrtn and Microsoft Korea, gaining practical insights into AI applications

GDSC Hanyang (Google Developer Student Clubs)

Mar 2024 - Jul 2024

Google Developer Student Clubs

- Participated as a ML/DL general member
- Engaged in systematic review of foundational papers in Natural Language Processing
- Delivered ML/DL Tech Talks to fellow members
- Developed a demo version of 'Gather Wish', a mobile application for collaborative grocery purchasing, implementing core functionalities and user interface

Data Science Department Student Council

Mar 2023 - Feb 2024

Hanyang University

- Served as the vice president of the Department of Datascience

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Mar 2023 - Aug 2023

Hanyang University

- Joined the central computer club at Hanyang University in March

- Engaged in study sessions to deepen understanding of C/C++ syntax and conduct algorithm studies, including programming problem-solving

Awards & Scholarships

Academic Excellence Scholarship (60% tuition) <i>Hanyang University</i>	<i>2025</i>
Hanyang Subject Portfolio Competition: 2nd Prize <i>Hanyang University</i>	<i>Jan 2025</i>
Academic Excellence Scholarship (100% tuition) <i>Hanyang University</i>	<i>2025</i>
Hanyang Pacemaker-Studying Community Scholarship <i>Hanyang University</i>	<i>June 2023</i>
Academic Excellence Scholarship (40% tuition) <i>Hanyang University</i>	<i>2023</i>
Hanyang Subject Portfolio Competition: 3rd Prize <i>Hanyang University</i>	<i>Dec 2022</i>
Academic Excellence Scholarship (100% tuition) <i>Hanyang University</i>	<i>2022</i>

Related Courses

Linear Algebra: A+
Data Science: A+
Artificial Intelligence: A+
Machine Learning: A+

Certificate

Software: SQLD (2023)