Sana Kang

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Education

Carnegie Mellon University, School of Computer Science *Spring–Summer 2025*
Short-term Visiting Scholar, School of Computer Science
Software and Societal Systems Department

KAIST College of Business, Seoul, Korea *2024–2026 (Expected Feb 2026)*
M.S. Candidate in Management Engineering
Relevant coursework: Information Systems, AI/ML, Econometrics, Business Modeling

KAIST, Daejeon, Korea *2019–2024*
B.S. in Computer Science and Business Technology Management (Double Major)

Research Publications

PhoniTale: Phonologically Grounded Mnemonic Generation for Typologically Distant Languages
Sana Kang*, M. Gwon, S. Kwon, J. Lee, A. Lan, B. Raj, R. Singh
Under review at ACL Rolling Review (2025)

LLMs Meet Match-Up Theory: A New Frontier in Influencer Recommendation
M. Gwon, **Sana Kang***, M. Lee, S.-H. Park
Under review at ICIS (2025)

Beyond English-Centric AI: Strategic Frameworks for Developing Low-Resource Language Models
P. Choudhury, D. Y. Kim, **Sana Kang***
Accepted book chapter, Handbook on AI and Strategy, UMich Ross (Forthcoming 2026)

Research Experience

RA | Prof. Minkyung Kim (CMU Tepper) & Prof. Meng Liu (WashU Olin) 2025
Analyzing large-scale housing transaction data from a digital real estate platform using causal inference to study policy-driven consumer behavior. *Working paper in preparation.*

Research Lead | Prof. Sung-Hyuk Park (KAIST) & Firenze Inc. 2025
Led a university-industry collaborative project surveying ML models and biobank datasets (UK Biobank, KoGES) for CVD prediction and fairness. Emphasis on clinical impact and generalization across populations.

Programming Intern | KAIST MIKES Lab 2022.01 – 2023.03
Co-authored a paper on fractional NFTs based on Ethereum ERC-1155; focused on blockchain-based ownership design in a national research project.

Work Experience

HdMedi Co. Ltd., Seoul, Korea Jul 2024 – Aug 2024
AI/ML Team Intern

- Led a team of undergraduate students to develop and implement an end-to-end algorithm to extract and standardize medicine names from prescription and medicine bag images.

- Automated a manual process previously done by pharmacists; reduced data processing time from 1 day to 5 seconds; achieved 0.655 precision, 0.728 recall, and 0.690 F1 score in the first model iteration.

SweetSpot, Inc., Seoul, Korea Jun 2023 – Feb 2024
Machine Learning Team Intern

- Led a year-long industry-academia collaboration between KAIST Google Developer Student Club and SweetSpot, serving as ML Team Lead.
- Developed the first location-based sales prediction model for FnB franchises using GraphSAGE; reduced RMSE by 10.6% and improved stakeholder decision-making.

UWS Blockchain R&D Center, Seoul, Korea Jun 2022 – Dec 2022
Research & Development Team Intern

- Designed and developed the MVP for the VENETA Multi-Issuer system for blockchain-based P2P trading; selected for the government-sponsored Financial Regulatory Sandbox (Patent Nos. 10-1204317, 10-2611819).

LG Household & Health Care, Ltd., Seoul, Korea Jul 2021 – Aug 2021
Machine Learning & Data Analysis Intern

- Participated in the Coca-Cola price prediction project.
- Developed a cross-departmental automated inventory management web app.

Awards

Academic Excellence Award | KAIST Business School 2025
Sponsor Prize | ETHCon Korea (Polygon) 2023.09
Grand Prize | Startup Pitch Competition (KITA, Korea-Arab Society) 2022.11
3rd Prize | KAIST Leadership Presentation 2022.05
Outstanding Graduate (Physics) | PNU Gifted Institute 2021.06
Outstanding Freshman Leader | KAIST 2019.05