

DOEUN KIM

 kde9867@gmail.com

 <https://www.linkedin.com/in/doeun-kim-547b502b4/>

EDUCATION

KDI School of Public Policy and Management

Jan. 2026-

Master of Data Science for Public Policy and Management

Kangwon National University

Mar. 2022-Feb. 2026

Department of AI Convergence

- Total GPA of 4.13 / 4.5, Major GPA of 4.24 / 4.5

PUBLICATIONS

Journal of Industrial Innovation

Dec. 2025

- **Kim, D.** and Park, J. (2025, December). A Trend Analysis of AI Adoption using Large Language Model (LLM) Embedding Methods. *Journal of Industrial Innovation*, 41(4), 214–223.

KCC 2025

Jul. 2025

- **Kim, D.**, Park, S., Park, J. (2025, July). Complementary Co-Evolution of AI Innovation: Public–Private Collaboration Using Patent Embedding. *Proceedings of the Korean Information Science Society Conference*, 1,443 – 1,445.

IC2S2 2025

Jul. 2025

- **Kim, D.**, Park, S., Park, J. (2025, July). AI Innovation at the Crossroads: Complementarity Between Public and Private Sectors. In 11th International Conference on Computational Social Science IC2S2.

EMNLP 2024

Nov. 2024

- Koo, M., **Kim, D.**, Han, S., & Park, S. (2024, November). Platform-Invariant Topic Modeling via Contrastive Learning to Mitigate Platform-Induced Bias. In *Findings of the Association for Computational Linguistics: EMNLP 2024* (pp. 11123–11139).

KSC 2023

Dec. 2023

- **Kim, D.**, Koo, M., Han, S., & Park, S. (2023). Research to Mitigate Platform-induced Topic Modeling Bias. *Proceedings of the Korean Information Science Society Conference*, 1520–1522.
- Ham, Y., Kim, Y., **Kim, D.**, Koo, M., & Park, S. (2023). A Mental Disorder Prediction System Based on User Utterances Using KoBERT. *Proceedings of the Korean Information Science Society Conference*, 1517–1519.

AWARDS

2023 SW Talent Festival – Sponsor Company Award

Nov. 2023

- Received the Sponsor Company Award (SK Telecom) in the SW Talent Festival Excellent Project Competition organized by the SW-centered University Council for developing an AI Mental Care Chatbot.

2023 Korean Software Congress (KSC 2023)

Feb. 2024

- Awarded the Encouragement Prize in the Undergraduate Division for the paper titled "A Study on Reducing Platform-Induced Bias in Topic Modeling."

PROJECT EXPERIENCE

AI Innovation: Complementarity Between Public and Private Sectors	Jan. 2025 - Present
<ul style="list-style-type: none">Built AI innovation landscape using embedding techniques & semantic analysis; revealed distinct yet complementary roles of various innovation typesAnalyzed the interplay between government, government-funded, and private sector patents in AI innovationFindings provide empirical evidence for optimizing public funding allocation in national AI strategies	
Between External Shocks and Birth Rates	Apr. 2025 - Present
<ul style="list-style-type: none">Analyzes COVID-19 impact on Korean birth rates via social media text analysisTracks public perception changes re: childbirth pre/post-pandemic using semantic axis analysis (individual vs. societal level) & fine-tuned language modelsReveals how external shocks reframe demographic narratives, offering real-time insights for policy response	
Korean Labor Market Dynamics Analysis Using Embeddings	Jul. 2025 - Dec. 2025
<ul style="list-style-type: none">Built integrated employment database aggregating diverse Korean job market data sourcesApplied LLM embedding methods to trace labor market evolution and structural shifts in semantic spaceOffers framework for comprehensive overview of domestic labor market structure & landscape	
Platform-Invariant Topic Modeling	Feb. 2023 - Apr. 2024
<ul style="list-style-type: none">Developed a novel algorithm to mitigate platform-specific biases when performing topic modeling across diverse social media sources (Twitter, Facebook, Reddit, etc.)Platform jargon extraction using c-TF-IDF for keyword extractionEncouragement Award at Korean Software Congress 2023 (Undergraduate Division); Research evolved into EMNLP 2024 Findings paper on enhanced multi-platform topic modeling methodology	
Beyond AI: Text Mining and Topic Analysis Pipeline	Apr. 2024 - Jun. 2024
<ul style="list-style-type: none">Analyzed US patent database to identify recent AI diffusion patterns and cross-domain convergence trends in technological innovationApplied BERTopic modeling to extract and analyze emerging AI convergence themes, revealing key integration areas across industriesDeveloped end-to-end pipeline from raw patent data preprocessing to topic-based insight generation, enabling systematic analysis of AI technology fusion and emerging innovation patterns	
Development of a Mental Care Chatbot	Jun. 2023 - Jun. 2024
<ul style="list-style-type: none">Co-developed AI chatbot using KoBERT model to predict 12 mental disorders from user input and recommend appropriate psychological assessmentsImplemented c-TF-IDF algorithm to extract disorder-specific keywords, improving diagnostic accuracy and test recommendation relevance	
Time Series Forecasting Using LLMs	Jul. 2024 - Nov. 2024
<ul style="list-style-type: none">Pioneered novel approach using ChatGPT API for time series prediction by treating numerical data as text input, exploring LLMs' untapped potential in forecasting tasksApplied zero-shot and few-shot learning strategies to sales volume forecasting, systematically comparing their effectiveness in capturing temporal patterns	