

Dongho Kim

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EDUCATION

Dongguk University

Bachelor of Business Administration & Bachelor of Science in Data Science Software

Seoul, South Korea

Mar 2019 - Feb 2025

- Relevant Coursework: Multivariate Calculus, Linear Algebra, Statistics and Probability, Data Mining, Deep Learning

University of California, San Diego

Exchange Program

San Diego, CA

Sep 2022 - June 2023

- Relevant Coursework: Introduction to Data Science, Python Programming, Game Theory

RESEARCH EXPERIENCE

Research Intern

Intelligence and Optimization in Networks Lab (Advisor: Professor Hyeryung Jang)

Dec 2023 - Aug 2024

- Presented deep learning architectures to research teams and engaged in weekly lab knowledge-sharing sessions
- Developed an architecture combining Recurrent Neural Network(RNN) and sentiment analysis for stock prediction, processing market data from 88 companies
- Implemented sentiment analysis pipeline using FinBERT to analyze 40,000+ financial tweets, achieving 51% accuracy improvement over baseline RNN
- Built data preprocessing pipeline for historical stock and text data, conducting extensive experimentation with various model architectures

RESEARCH INTERESTS

Natural Language Processing, Data Mining, Time Series Analytics & Forecasting, Machine Learning Applications

PROJECT EXPERIENCE

Multimodal LLM-Based Assistant

Data Science Capstone Design Project, Dongguk University

Sep 2024 - Dec 2024

- Constructed an intelligent recipe assistant using ChatGPT API for recipe recommendations and ingredient recognition with 95% accuracy
- Implemented real-time cooking assistance system using Realtime API for interactive user experience

B2B Sales Opportunity Prediction

LG Corporation's AI Research Competition

Dec 2023 - Feb 2024

- Ranked top 3% with XGBoost classifier achieving 96.15% accuracy and 87.65% F1 score on 59,000+ opportunities
- Designed an ML pipeline using Numpy and Scikit-learn for feature engineering and dimensionality reduction

Hotel Booking Analysis and Prediction

Data Visualization Project, Dongguk University

Sep 2023 - Dec 2023

- Developed booking cancellation prediction models achieving 86.4% precision using Random Forest classifier
- Conducted comprehensive data analysis using Seaborn to identify seasonal trends and guest behavior patterns

AWARDS & SCHOLARSHIPS

- Excellence Award, Seoul City AI Video Content Competition, July 2024
- Exchange Program Scholarship, Dongguk University, 2023
- Academic Excellence Scholarship, Dongguk University, 2022

UNIVERSITY SERVICE

Teaching Assistant

Department of Business Administration, Dongguk University

Sep 2023 - June 2024

- Developed Excel-based grading system for Human Resource and Diversity Management courses (80+ students)
- Created data-driven performance reports achieving 95% student satisfaction rating in course evaluations

International Student Mentor

International Buddy Program, Dongguk University

Sep 2019 - Dec 2019

- Facilitated cultural exchange and academic adaptation for international students through mentoring sessions
- Organized cross-cultural events and study groups to enhance international students' learning experience

PROFESSIONAL EXPERIENCE

Operations Assistant

M&E Parts, Seoul

Nov 2021 - May 2022

- Designed inventory management system using Excel, reducing processing time and minimizing human error
- Analyzed historical inventory data to identify inefficiencies and decrease both stock shortages and excess inventory

Sergeant

Republic of Korea Defense Communication Command

Jan 2020 - Sep 2021

- Led and managed a supply management unit, overseeing daily operations and team performance
- Maintained and troubleshooted communication equipment for critical military communications

TECHNICAL SKILLS

Languages & Tools: Python, SQL, Java, Git, Jupyter Notebook, VS Code

Machine Learning & Analytics: PyTorch, TensorFlow, Scikit-learn

Data Engineering & Visualization: Pandas, NumPy, Matplotlib, Seaborn

LANGUAGES

Korean: Native

English: Professional working proficiency (IELTS 7.0/9.0, GRE: Verbal 158/170-77%, Quant 170/170-92%)

Chinese: Intermediate (HSK Level 4)

CERTIFICATIONS

- Microsoft Office Specialist Certification, 2021

REFERENCES

- **Hyeryung Jang, Ph.D.** - Research Advisor
Assistant Professor, Department of AI Software Convergence, Dongguk University
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- **Sanghyeon Sung, Ph.D.** - Academic Advisor
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- **Shannon E. Ellis, Ph.D.** - Academic Advisor
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