

김선중 (SunJoong, Kim)

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Education

Bachelor of Science in Mathematics, Korea University, Seoul (3.77/4.5)	Feb. 2015
Master of Science in Mathematics, Korea University, Seoul (3.92/4.5)	Feb. 2024

Graduate School

Stock prediction using LSTM and wavelet · KOSPI 200, binary classification (up/down, accuracy: 0.58)	Jul. – Dec. 2020
Lipschitz constant of deep neural network · Survey paper on stability of AI architectures	Jul. – Oct. 2022
Production of TeX Template for Korea university graduate school · thesis and dissertation template for TeX paper (math included paper)	Dec. 2022 – Feb. 2023

Working Experiences

UI networks, 교통연구본부, 대리 · Development and distribution of signal generation and traffic assignment algorithms in Seongnam ITS(intelligent transport system) - signal generation: simultaneous signal via signal DB - traffic assignment: align traffic volume using linear programming	Sep 2023 – Oct 2024
IBEDU, math teacher · Teaching mathematics online 20+ students	Dec 2021 – Nov. 2022
private math teacher · Teaching mathematics offline 50+ students	Mar. 2014 – Dec. 2018

Data Analytics Experiences

Suggesting SOCAR zone locations · Aiffelthon of MODULABS, data provided by SOCAR	Dec. 2022 – Feb. 2023
Anomaly detection on manufacturing · LSTM classification on imbalanced data (f1 score: 0.87)	Oct. 2022 – Nov. 2023
Recommendation system on 아이들나라 · Enhancing model of neural collaborative filtering (recall: 0.2273, NDCG: 0.21)	Nov. 2022 – Dec. 2023

Programming and Maths

data processing	· numpy	· pandas	· scikit-learn
data visualization	· matplotlib	· seaborn	
machine learning	· tensorflow	· pytorch	· keras
code management	· git	· VS code	
math documentation	· TeX	· LaTeX	· github blog
math tool	· geogebra	· (mathematica)	· (matlab)
mathematics	· calculus	· analysis	· linear algebra
	· probability	· abstract algebra	· set theory

Others

ADsP (Advanced Data Analytics Semi-Professional)

Nov. 2022

TEPS (346)

Feb. 2019