김선중 (SunJoong, Kim)

50, Haedeung-ro, Dobong-gu | 010-2405-7290 | govindah08@gmail.com | https://govin08.github.io

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Ed	uca	tion

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

Graduate School

Stock prediction using LSTM and wavelet

Jul. - Dec. 2020

· KOSPI 200, binary classification (up/down, accuracy: 0.58)

Lipschitz constant of deep neural network

Jul. - Oct. 2022

· Survey paper on stability of AI architectures

Production of TeX Template for Korea university graduate school

Dec. 2022 - Feb. 2023

· thesis and dissertation template for TeX paper (math included paper)

Data Analytics Experiences

Suggesting SOCAR zone locations

Dec. 2022 - Feb. 2023

· Aiffelthon of MODULABS, data provided by SOCAR

Anomaly detection on manufacturing

Oct. 2022 - Nov. 2023

· LSTM classification on imbalanced data (f1 score: 0.87)

Recommendation system on 아이들나라

Nov. 2022 - Dec. 2023

· Enhancing model of neural collaborative filtering (recall: 0.2273, NDCG: 0.21)

Working Experiences

IBEDU, math teacher

UI networks, 교통연구본부, 대리

Sep 2023 - Sep 2024

- · 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

Dec 2021 – Jan. 2022

· Teaching mathematics online 20+ students

private math teacher Mar. 2014 - Dec. 2018

· Teaching mathematics offline 50+ students

Programming and Maths

data processing · scikit-learn · numpy · pandas

data visualization · matplotlib · seaborn

machine learning · tensorflow · pytorch · keras

code management · git · VS code

math documentation · TeX · LaTeX · github blog

math tool · geogebra · (mathematica) · (mathlab)

mathematics · calculus · analysis · linear algebra · set theory

> probability · abstract algebra

Others

ADsP (Advanced Data Analytics Semi-Professional)

Nov. 2022

TEPS (346)

Feb. 2019