Ji Hong Min

jhmin325@gmail.com | 010-9464-8399 | ⌭ | in

Education

Seoul National University / M.S in Data Science   Mar. 2022 - Expected Feb. 2024
Research area : Data Visualization, Spatio-Temporal Data Analysis and Prediction
Thesis : Visual Analytics for Maritime Traffic Monitoring and Forecasting

Georgia Institute of Technology / B.S in Mechanical Engineering   Aug. 2013 - May 2016
Overall GPA : 3.16/4.0, Major GPA : 3.21/4.0, Early Graduation with Honor

Skills

Programming Languages: Python, C, C++, SQL, JavaScript
Data Visualization: Matplotlib, Seaborn, HTML, CSS, Flask, Stata
Machine Learning/Deep Learning: Neural network based prediction, Clustering, Regression, Classification
Language: Fluent in Korean and English

Data Science Projects

LTE-Maritime based Vessel Trajectory Prediction [1]   Jul. 2022 - Nov. 2023
National R&D project of Ministry of Oceans and Fisheries

- Predicted vessel trajectory based on LTE-Maritime and Automatic Identification System with data collected from the Sea of Korea
- Provided visualized system to monitor and forecast maritime traffic

Latest News Summary Service   Mar. 2023 - Jun. 2023
Project for Data Science, 2022 Fall Coursework

- Developed a web-based service that retrieves the latest news data daily and provides answers to user queries.
- Constructed an end-to-end framework from Large Language Model to User Interface using Flask and MS Azure services.

Work Experiences

POSCO / Mechanical Engineering Project Manager   Aug. 2016 – Jan. 2022
Plant Engineering Group, POSCO HQ   *Jan. 2020 – Jan. 2022*

- Managed industrial plant projects including Engineering, Procurement, and Construction, specializing in utility facilities (worth up to $40M).
- Conducted feasibility studies and risk management for projects.

Facility Technology Department, Gwangyang Steel Works   *Sep. 2017 – Dec. 2019*

- Predicted the machine failure with operational data analysis
- Optimized sinter boiler operation with data analysis (worth up to $2.1M)

Seoul National University / Undergraduate Research Assistant   May 2015 - Jul. 2015
Bio Robotics Lab, Prof. Kyujin Cho

- Designed control mechanism for the landing position of Dash Robot

Publications

[1] **Min J**, Lee S, Cho D, Baek J, Park H, A Comparative Study of Vessel Trajectory Prediction Error based on AIS and LTE-Maritime Data, J Navig Port Res, 46(6), 576-584, 2022. [Link]