

# Ji Hong Min

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## 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. [\[Link\]](#)