

Hyunjae Lee

🐙 LeeYunseol | ✉ dreamers0414@gmail.com | 📞 010-7507-4955



RESEARCH INTEREST

Data Mining, Deep Learning, Reinforcement Learning

EDUCATION

Pusan National University

Expected Graduation date: Aug 2023

May 2017 - present Bachelor at **Industrial Engineering** (GPA: **4.05**/4.5) (Rate: **2**/54)
Sep 2020 - present Bachelor at **Big Data Interdepartmental Major** (Second major)

WORK EXPERIENCE

Bigdata Analytics and Engineering Lab Internship Pusan National University May 2021 - Jun 2023

- 스마트 항만 IoT 인프라 구축 기술 개발 Jun 2021 - Aug 2022
Organized and visualized the data using Excel and Python
- IoT 및 지능정보 기반 동남권 제조 IT 기술 혁신 및 인재 양성 Sep 2021 - Dec 2021
Developed a simple and effective port builder using C# and Unity
- 인공지능 기반 컨테이너 운임 예측모형 개발 Dec 2021 - Aug 2022
Analyzed and forecasted the Shanghai container freight index(time-series data) & Wrote a paper on feature selection in time-series data
- 프로세스 자가 재설계 및 최적화를 위한 인공지능 기반 자동화 프로세스 마이닝 연구 Sep 2022 - Jun 2023
Researched real-time object detection & semi-supervised learning from truck images on road CCTV
Predicted arrival time, turnaround time, turn time for external container trucks using VBS data
- 차량 반출입예약시스템 해외 항만 적용사례 분석 Nov 2022 - Dec 2022
Researched characteristics of ports that are applied VBS and wrote a document about it

ADDITIONAL INFORMATION

Body Morphometry AI Segmentation Online Challenge in Kaggle [16/27] Jul 2021 - Aug 2021

Developed a kidney segmentation AI model, a BLU-net using U-net twice

Public Big-Data Youth Internship Jul 2021 - Sep 2021

Conducted a project about segmentation between kidney and cancer using Python, Pytorch and Flask

Undergraduate Research Jan 2022 - Feb 2022

Learned theories and techniques about deep learning

Shopping mall sales forecast competition in Dacon [1/1198] Jul 2022 - Aug 2022

Got the **Top Prize** based on clustering with TimeSeriesKMeans in time-series data

Jeonju Public Data Analysis Competition Sep 2022 - Nov 2022

Analyzed the data using QGIS and Python and suggested related policies

Best Award in Capstone Design Organized by IE in Jun 2023, Team Leader

Propose the development of a comprehensive framework including XAI for identifying the key factors that influence the Dwell Time of import containers in container terminals

PUBLICATIONS

컨테이너 운임 지수 예측 요인 연구: 코로나19 이전과 이후 비교

대한산업공학회 춘계공동학술대회 논문집, p2145-2155, Jun 2022, **Published**

이상재, 김도희, 박한별, **이현재**, 이가원, 배혜림

Ensemble method for feature selection in time-series prediction based on image similarity

ICIC Express Letters Part B:Applications, July 2023, **Published**

Hyunjae Lee, Dohee Kim, Sangjae Lee, Hanbyeol Park, Hyerim Bae, Keonwoo Choi

Analysis of Key Factors of Import Container Dwell Time with Explainable Artificial Intelligence

LOGMS, Sep 2023, **Scheduled to be Published**

Hyunjae Lee, Yongjae Lee, Jonghyuk Lee, Seonkwan Yeo, Hyerim Bae

CERTIFICATIONS & QUALIFICATIONS

– TEPS 369 Feb 2023

– Computer Specialist in Spreadsheet & Database Level - I Jul 2020

– SQLD Jun 2021

SCHOLARSHIPS

Academic Excellence Scholarship 2017-1, 2017-2, 2018-1, 2018-2, 2021-1, 2021-2, 2022-1

Scholarship From Lotte Foundation 2022-1