Hyunjae Lee

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RESEARCH INTEREST

Multimodal Data Mining, Deep Learning, Graph Neural Networks

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 - present
– 스마트 항만 IoT 인프라 구축 기술 개발 Jun 2021 - Aug 2022
     Organized and summarized the data using Excel
– 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 - present
     Researched real-time object detection & semi-supervised learning from truck images on road CCTV
– 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

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

CERTIFICATIONS & QUALIFICATIONS

– (Expired) TOEIC 900 Dec 2019 - Dec 2021
– 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