Jaemin Lee

Email : jmlee8939@hanmail.net | GitHub : https://github.com/jmlee8939 | Mobile : 82-10-6576-8939

PERSONAL PROFILE

Development of faster and efficient dynamic merge clustering methods.
AI-control system using prediction & optimization approaches.
Analysis of social changes with Bayesian models.
Deep learning-based time-series prediction models.

EDUCATION

Sungkyunkwan University   Sep. 2020 ~ Aug. 2022
Master of Science in Industrial Engineering (GPA: 4.38/4.5)
Sungkyunkwan University   Mar. 2014 ~ Aug. 2020
Bachelor of Science in Mechanical Engineering (GPA: 3.71/4.5)

WORK EXPERIENCES

Software Engineer – Samsung Electronics, PKG IT, Innovation Center, Device Solutions.   Aug. 2022 ~ Present
Tasks: Manufacturing Execution System(Dispatcher) software engineering.
Development of efficient automated dispatching algorithms with data analysis.

Data Analyst (Intern) – Deloitte Consulting Korea, AI&D   Dec. 2021 ~ Jan. 2002
Tasks: Research, Data preprocessing, Crawling open-source data.
Establishment of analysis environment for electric vehicle.

PROJECT EXPERIENCES

Researcher - LG Energy Solution.   Mar. 2021 ~ Aug. 2021
Development of AI-based temperature control system for slurry supply tank in the battery coater process.
Tasks: Data processing, Visualization, Data analysis, Modeling. Coding.
Development of the data selection method for efficient training with imbalanced dataset.
Utilizing the meta heuristic optimization method to optimize non-derivative objective functions.

Researcher - Hanon Systems.   Jun. 2020 ~ Aug. 2022
Development of AI-based HVAC control system for electric vehicles.
Tasks: Data processing, Visualization, Data analysis, Modeling.
Development of the imitated physical system with neural networks.
Searching optimal control values with the non-linear optimization method.

ACTIVITIES

Project Leader - AI competition to detect collisions using vibration data, DACON   Jun. 2020 ~ Jul. 2020
Tasks : Data Analysis, Modeling. Coding.
Development of the CNN (Convolutional Neural Networks) based time-series regression model.
Top 8% model accuracy.

Certificates of completion for "Introduction to Data Science in Python" online courses, University of Michigan, Coursera   Nov. 2019 ~ Mar. 2020
Applied Machine Learning, Text Mining, Plotting, Charting & Data Representation in Python.

CERTIFICATIONS & LANGUAGE SKILLS

ADsP (Advanced Data Analytics Semi-Professional),   Korea Data Agency
SQLD (SQL Developer), Korea Data Agency

TECHNICAL SKILLS

Python (numpy, pandas, matplotlib, Scikit-learn, pyplot), R (dplyr, tidyr, ggplot2, shiny), Deep-learning framework (pytorch), SQL (Oracle, My sql), C, Tableau.

JOURNAL PUBLICATIONS

Jaemin Lee, Minseok Han, Jong-Seok Lee, (2022**). "Convergence Analysis of Connection Center Evolution and   Faster Clustering"** Pattern Recognition, 127, 108639.
Researcher - Hanon Systems.

Jaemin Lee, Juhuhn Kim, hyunho Kim, Jong-Seok Lee, (2022) **"A Bayesian approach to predict football matches with changed home advantage in spectator-free matches after the COVID-19 break"** *Entropy,* 24.3 (2022): 366.