JEONGYOON LEE

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EDUCATION

Dec 2024 (Expected) Northwestern University Evanston, IL M.S in Artificial Intelligence Foundations of Reliable Machine Learning, Data Science Seminar, Introduction to AI, Frameworks for Artificial Intelligence

Stony Brook University Stony Brook, NY B.S in Computer Science; Applied Mathematics and Statistics Dec 2022 GPA 3.73/4.0 | Magna Cum Laude

Machine Learning, Natural Language Processing, Applied Linear Algebra, Finite Mathematical Structures, Software Engineering

SKILLS

Computer Languages: Python, SQL, Excel | Libraries: PyTorch, TensorFlow, Pandas, Scikit-learn, Keras, Numpy, Matplotlib

EXPERIENCE

Samsung Electronics, America | Ridgefield Park, NJ

SCM Data Analyst in SCP(Supply Chain Planning) Team

- April 2023 July 2023 Analyzed and reported the Samsung Home Appliance logistic order progress every day using Excel and ERP systems to achieve the forecasted order targets at the end of the month.
- Calculated the most efficient container allocation for each washing machine model based on the week's Best Buy order • quantity, while considering the past weeks' actual orders using a customized Excel formula.
- Created an unshipped report every week to understand how many orders that have PO(Purchase order) have not shipped • vet and figure out the reason for the increase/decrease rate of unshipped orders.
- Developed automatic GR/GI program for direct shipment management in Python, reducing the time for preprocessing data manually.

Akai Kaeru LLC | Stony Brook, NY

Data Scientist Summer Intern

- June 2022 August 2022 Collaborated in the development of AK Analyst software and performed Alpha Testing, identifying and documenting multiple software bugs to enhance user experience and ensure software integrity.
- Conducted end-to-end data pipeline project, using dataset sourced from the Spotify API, including audio metadata • collecting, preprocessing, cleaning, analyzing, and visualizing. Leveraged insights; determined factors that increase song popularity and drove business outcome.
- Presented technical findings in a clear and concise manner to both technical and non-technical audiences, including senior leadership and stakeholders.

PROJECTS

Amazon Product Predictor | PyTorch

- Established the Amazon score predictor model using 200,000 English Amazon review text data with 61% accuracy.
- Utilized HuggingFace's transformers with pre trained DistilBERT uncased model to make predictions.
- Gained knowledge of fine-tuning deep learning models, data collecting, using pretrained models.

Covid Infection Prevalence Rate Predictor | MYSQL, TensorFlow, Python, Microsoft Access

- Built a database with ER Diagram, logical, and physical model using MySQL and Microsoft Access to set foreign keys and unique keys to the new table from ERD which satisfied DBMS normalization (1NF, 2NF, 3NF, BCNF, and 4NF).
- Extracted 3518 COVID patient data, 7279 tracing places from confirmed patient cases and hospital information from the Korean Government dataset, selected features with correlation analysis, and formed a table to use for deep learning.
- Constructed and tuned Deep Neural Network to predict patients' vulnerability to COVID-19 prevalence infection with high accuracy.

Improvement of Economic Performance Indicators using Big Mac Index | Python

- Analyzed between current Big Mac Index and economic trends using correlation analysis with Python.
- Improved current Big Mac Index combined with other economic indices(Living Index and Local Purchasing Power Index), utilized insights from PCA analysis to create a new formula for Big Mac Index.

ACTIVITIES & LEADERSHIP

Group Leader, Vocalist, THUMB, Seoul (2019)

Performed monthly group meetings to make cover songs with various genres, designed the busking in Seoul.

University Global Ambassador (2017 - 2019)

Worked as Vice President under the international office at Ajou University to help exchange students from various countries adjust in Korean culture and held international events.

AWARDS & CERTIFICATES

Award in Industrial Engineering contest, KIIE(Korean Institute of Industrial Engineers) (2017)

- Presented an effective detachable subway system and suggested a new subway line based on traffic congestion rate.
- Using Arena Simulation and calculating congestion rate with a penalty multiplier, decreased 82.1% congestion rate by • selecting a detachable subway and lowered the effects of **congestion pricing** by \$101.34 billion.

July 2020

May 2022

Dec 2018