Chiwon Seuh

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Education

University of Wisconsin – Madison, Madison, WI GPA 3.59 / 4.0
Degree: Bachelor of Science in Data Science *Dec. 2024 Expected*
Certificate: Computer Science
Coursework: Machine Learning and Statistical Pattern Classification, Data Science Programming, Data Science Modeling, Big Data System, Statistical Data Visualization

Projects

MovieLens Dataset Analysis using R (Team of 2) **MADISON, WI**
Data Analyst, STAT 240 (Data Science Modeling I) *April 2023 - May 2023*

- Explored the impact of release dates on movie revenues, identifying movies released in specific months, as top performers.
- Established a relationship between a movie's budget and its revenue using linear regression models, revealing a moderate to strong positive correlation.
- Utilized ggplot2 for data visualization, highlighting that revenue is highest when the vote average is 6-8.
- Conducted genre analysis with R, pinpointing Drama as the most prevalent genre but not necessarily the most profitable.
- Leveraged data wrangling for data manipulation and conducted t-tests to evaluate the statistical significance of the relationship between movie genres and their profitability, as well as other key variables influencing movie success.

COVID-19 Mortality Prediction using Python (Team of 4) **MADISON, WI**
Project Leader & Data Analyst, STAT 451 (Machine Learning & Statistical Pattern Classification) *July 2023 - August 2023*

- Explored prediction of COVID-19 death rates by employing machine learning models, including Logistic Regression, Decision Tree, and Gradient Boosting Classifier models
- Implemented one-hot encoding for a categorical variable to improve model interpretability.
- Implemented oversampling techniques to address data imbalances in precision and recall and enhance model accuracy.
- Discovered the Decision Tree model's superiority, which outperformed Gradient Boosting by 994 correct predictions and surpassed Logistic Regression by 1,078 correct predictions.

Automated Hymns and Scripture Presentation Generator using Python (Team of 2) **MADISON, WI**
Data Analyst, Korean Presbyterian Church *December 2023 – March 2024*

- Developed an automated tool for generating PowerPoint presentations of hymns and Bible verses using web scraping techniques and Python (BeautifulSoup, Requests, os) to support religious activities, significantly enhancing the accessibility of spiritual content for Korean-speaking congregations.

Experience

The Wisconsin Union, Strada, Madison, WI May 2023 – Present

- Engage with customers in a friendly manner while accurately receiving and preparing food orders in order to create a positive overall customer experience.
- Communicate and collaborate with co-workers and management to effectively serve the maximum number of guests during high-volume, fast-paced operations, maintaining a positive attitude throughout.

Executive Assistant to the Commander, Republic of Korea Navy April 2021 – December 2022

- Orchestrated daily operational support for senior naval command, enhancing organizational efficiency and demonstrating acute accountability.
- Assisted in maintaining operational readiness by promptly addressing and communicating issues during various scenarios, showcasing problem-solving and critical thinking skills.

2018 PyeongChang Winter Olympics Volunteer, South Korea February 2018

- Collaborated with event security and management teams for effective crowd control.
- Excelled in a multicultural setting, fostering inclusive communication, and understanding among attendees from diverse backgrounds.

Skills

Programming Languages: Python, R, SQL, Java, JavaScript, MySQL, Hadoop, Spark, Cassandra, BigQuery, Kafka
Tools: Visual Studio, Jupyter Notebook, Jupyter Lab, RStudio
Misc: Linux/UNIX Server (Ubuntu), Git, PyTorch, Pandas, NumPy, Matplotlib, PyArrow
Languages: Korean, English