

Liguang(Lee) Zhang

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Select Projects

- June, 2022 **COVID-19 Data Exploration and Visualization**, *SQL, Tableau*.
Composed dashboard to visualize key COVID-19 metrics and forecast future population infection rate
- Conducted Exploratory Data Analysis with query results uploaded to Tableau
 - Communicated population infection rate(per country) using a symbol map with colour gradients
- Apr, 2022 **Sentiment Analysis of COVID-19 Vaccine Tweets**, *Python, Group Project*.
Classified tweets' sentiments to answer proposed research questions
- Used movie dataset from NLTK package to classify words as carrying positive/negative sentiments
 - Calculated mean compound score to classify each tweet as carrying negative/positive sentiment
 - Fitted 8 models including RandomForest and AdaBoost, with MLP classifier achieving a 75.5% accuracy
 - Showed that vaccine rollout was correlated with spikes in both positive & negative sentiment counts and the opening of epidemic policies was correlated with decrease in number of sentiments
- Feb, 2022 **Housing Prices Prediction for NYC in 2020**, *R*.
Built multiple linear regression models to predict the housing prices for Brooklyn and Manhattan in 2020
- Used 90% of valid housing transactions in 2020 as training data
 - Selected 7 features to build models using real estate related knowledge while taking into consideration multicollinearity and missing values among/in features
 - Evaluated models using RMSE, most compact model had a lower RMSE of 0.7535

Experience

- May, 2019 – **Sleep Technician**, *Universal Sleep Disorder Clinic*.
Aug, 2019
- Made preliminary diagnosis of patients' sleep disorders using data from monitoring equipments
 - Annotated and maintained sleep study data for later use by medical doctor
 - Provided excellent clinical services which resulted in 30% higher patient satisfaction compared to before
- May, 2018 – **Administrative Support**, *University Health Network-Toronto Western Hospital*.
Aug, 2018
- Supported the coordination and implementation of department events
 - Provided timely response to patient requests
 - Performed general admin duties including filing, data entry, photocopying and phoning patients

Education and Certification

- Apr, 2022 **Bachelor of Science(Honours)**, GPA 3.64, Queen's University.
Relevant courses: Data Analytics, Advanced Data Analytics, R for Data Science, Statistical Programming with SAS, Statistics, Linear Algebra
- June, 2022 **Data Analytics Certificate**, Google.

Skills

- Analytics Excel, SQL, Python, R, Tableau, Powerpoint, Power BI, Oracle, TOAD
- Domains Data Analytics, Business Intelligence, Business Fundamentals, Data Visualization, Data Mining, ETL process, Statistical Modelling, Machine Learning
- Tools MySQL, Google BigQuery, Google Cloud, RStudio, Jupyter, Anaconda, Dataspell
- Soft Skills Interpersonal, Communication, Writing, Problem Solving, Presentation, Requirement Analysis