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 – Aug, 2019 — **Sleep Technician**, *Universal Sleep Disorder Clinic.*
- 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 – Aug, 2018 — **Administrative Support**, *University Health Network–Toronto Western Hospital.*
- 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
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