Jack Li

Data analyst

Jack.li.2000@hotmail.com | (437) 265-0290 | https://www.linkedin.com/in/jack-li-2000
https://Jack-Li-2000.github.io/JackLiPortfolio/

Skills

Python: Highly proficient with pandas, numpy, matplotlib, seaborn, scikit, scipy, etc.
Excel: Highly Proficient with pivot tables, formulas, xlookup, conditional formatting, charts, data cleaning.
SQL: Experienced with query calls, views, joins, conditional statements, database management, etc.
Data Visualization: Familiar with telling stories using interactive dashboards in Tableau and PowerBI.
Statistical Methods: Highly proficient with supervised learning methods, time series, hypothesis testing, etc.
Cloud computing: Experienced with Google Cloud Platform and Microsoft Azure.

Work History

Reconciliation Data Analyst, OneDataTree

(01/2024 – Now, Toronto ON)
Data Analytics and Report Automation
- Developed dashboard automation pipeline for data ingestion, processing, and reporting, achieving 75% reduction in daily time commitment.
- Implemented cross-database validation software to maintain data accuracy and reliability between internal and client records significantly reducing discrepancies.
- Performed financial predictive forecasting and classification and ad hoc analytic.

Data Science Intern, Teck Resources

(2021 – 2022, Vancouver BC)
Machine Failure Classification
- Performed data cleaning, conveyed statistical inferences and exploratory analysis with python and SQL.
- Retrieved relevant features for classification using forward stepwise, lasso, and elasticnet feature selection.

Engine Life Cycle Prediction
- Predicted equipment lifecycle trend to inform replace vs maintain equipment decision with regression models.
- Displayed insights with analytics dashboards and visualizations in PowerBI.

Projects

Wordnet Similarity Recognition Analysis

Analyze NLP data structure similarities with Human semantic relationships between words. Using data from the Semantic Priming Project for human reaction time and accuracy based on response to stimuli, analyze correlation between Wordnet path similarity and Human word-pair recognition task performance with hypothesis and significance testing in Python.

Toronto AirBNB Popularity Insights Dashboard

Interactive Tableau dashboard providing insights for features like popular neighbourhoods, pricing, accommodation types, etc. using data for the greater Toronto area between November 2022 and November 2023.

Global COVID-19 EDA & Visualization

MS SQL database manipulation and analysis of global and localized infection, mortality, vaccination, and vaccination survival rates by country, continent, and worldwide. Data imported, visualized as Tableau dashboard.

Education

Honours B.Sc. in Statistics & Computational Cognitive Science

(University of Toronto, Toronto Ontario)
Relevant skills include practical knowledge in data regression models, predictive data techniques, classifiers, time series, dimensionality reduction, data visualization, and drawing key information to deliver insights on complex data sets. Also, in-depth knowledge of data structures and programming.