**Final Project Proposal**

**CS2704**

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**Hypothesis:**

“For computer science graduates, Halifax has a lower combined cost of living (including house prices) than Vancouver.”

**Description:**

Soon, we will face the choice of employment and life after graduation. These two cities are my favorite cities. I hope to draw conclusions by comparing their respective data sets, and hope that this project will be helpful for my future.

**Plan:**

1. Data collection:

a. Home price data: Collect home price data for Vancouver and Halifax, including average home price, home price trends, home prices in different regions, etc.

b. Cost of living data: In addition to room rates, other cost of living data should be collected, such as food, transportation, entertainment, insurance, and other daily expenses.

2. Data construction:

Make sure the data is comparable, such as collecting data over the same time period. Cleaning data, processing values or outliers

3. Descriptive analysis:

Calculate the average house price and cost of living for each city. The comparison of house prices and living costs in the two cities can be shown in the chart.

4. Consider job opportunities and salary levels:

As a computer science graduate, consider each person's employment opportunities and average salary. Compare the salary level with the cost of living to see which city has a higher base.

5. Comprehensive evaluation:

The final choice should be based on comprehensive consideration, including the results of data analysis and personal preferences.

6. Report writing:

Organize your findings and analysis process into reports that clearly present the data, analysis methods, and conclusions.

**Data:**

[**https://opendata.vancouver.ca/pages/home/**](https://opendata.vancouver.ca/pages/home/)

[**https://data-hrm.hub.arcgis.com/datasets/HRM::tax-rates/explore**](https://data-hrm.hub.arcgis.com/datasets/HRM::tax-rates/explore)

**Expected output:**

Actually, I like the city Vancouver more than Halifax, so I hope the output will be Vancouver is a better place for graduated computer science student.

**GitHub:**

https://github.com/dawnsino34/CS2703-Final-Project