Comparison of the similarity between Montreal and Paris

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1 Introduction

Montreal, with a population of 1.7 million, is the largest city of the Canadian province of Quebec. With more than 60% of the population being Francophone, Montreal is the second largest primarily French-speaking city in the world, after Paris. As the capital of France, Paris is also the most populous city with an official estimated population of 2.1 million. Paris and Montreal can be considered as two major centers of art, finance, science, and culture in western Europe and north America, respectively. Besides, Montreal is specially related to Paris because it has been profoundly influenced by the french and European culture in history.

Therefore, we are curious about finding the similarity of these two cities in terms of culture, business and life styles. To this end, we will derive the life patterns of Montreal and Paris by investigating their location and venue information of the historical districts, restaurants, cultural centers as well as commercial areas. The results of this report could be beneficial to intercontinental investors, overseas immigrants, and culture industry.

2 Data Sources

The sources of data in the project are listed as follows:

- I used **Forsquare API** to get the most common venues of given neighborhoods of Montreal and Paris.

- For the Paris neighborhood or arrondissements data, a **Wikipedia page** [1] exists with all the information we need. I used the beautifulsoup Python package to scrape the Wikipedia page and wrangle the data, clean it, and then read it into a pandas dataframe.

- For the Montreal neighborhood data, a **Wikipedia page** [2] exists with all postal code and neighborhood names. I scraped the Wikipedia page, clean it, and then read it into a pandas dataframe.

- I used **Google Maps Geocoding API** to get the latitude and the longitude coordinates of each neighborhoods in Montreal and Paris.

3 References

1. https://en.wikipedia.org/wiki/Arrondissements_of_Paris

2. https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_H