

Introduction

All of us have been through a tough 2020. Thousands of small business in the cities shut down. However, for someone 2021 could be a good time to invest in small business accelerating the local economy regression. Our client is planning to open a restaurant in Vancouver, BC. But the location of restaurant and type of food served are unknown. Client hope that we are able to find out the popularity of food in each neighbourhood, and provide a relevant recommendation of address. Certain steps we are going to walk through to reach a final conclusion, such as retrieving data, analyzing, results, recommendations. Matrix would be helpful to compare types of restaurant and neighbourhood. Also, average rental fee will be considered, helps client to control the cost and maximize the return.

Vancouver is a major city in the western Canada with densest and most diverse population. The city Vancouver had 631,486 people, and there were 2,463,431 population in Greater Vancouver Area by 2016. The Greater Vancouver Area consists of several small urban, like Richmond, Burnaby, Coquitlam, Langley city and so on. (Wikipedia, 2021)

Source of Data

Data frame will be used for model retrieved from website. Two sources of data are shown below:

- Postal code for each city in Greater Vancouver Area source from geoname website. (Geonames, 2021) This data could help locating the geo-infomation such as latitude and longitude.

	Place	Code	Country	Admin1	Admin2	Admin3
1	Port Moody	V3H	Canada	British Columbia		
		49.323/-122.863				
2	Pitt Meadows	V3Y	Canada	British Columbia		
		49.221/-122.69				
3	White Rock	V4B	Canada	British Columbia		
		49.026/-122.806				
4	Penticton	V2A	Canada	British Columbia		
		49.481/-119.586				
5	Westbank	V4T	Canada	British Columbia		
		49.866/-119.739				
6	Winfield	V4V	Canada	British Columbia		
		50.022/-119.405				
7	Kimberley	V1A	Canada	British Columbia		
		49.683/-115.986				
8	Saltspring Island	V8K	Canada	British Columbia		

- Data frame shows the population of Greater Vancouver Area, data will be processed and refined to merge into previous geonames data frame. (Statistics Canada, 2016)

Name	Status	Population Estimate 2007-07-01	Population Estimate 2012-07-01	Population Estimate 2017-07-01	Population Estimate 2019-07-01
Greater Vancouver	Regional District	2217187	2419034	2612881	2691343
Anmore	Village	1960	2220	2438	2515
Barnston Island 3	Indian Reserve	51	48	52	54
Belcarra	Village	691	657	680	693
Bowen Island	Island Municipality	3448	3608	3917	3957
Burnaby	City	214302	233545	245827	253007
Burrard Inlet 3	Indian Reserve	1462	1635	2018	2305
Capilano 5	Indian Reserve	2605	2834	3109	3203
Coquitlam	City	119028	133916	147764	149894
Coquitlam 1	Indian Reserve	27	44	58	60
Coquitlam 2	Indian Reserve	5	4	0	0
Delta	City	99230	102583	107171	109490

Methodology

Results

Discussion

Conclusion

Reference

“Vancouver.” *Wikipedia*, Wikimedia Foundation, 8 Feb. 2021, en.wikipedia.org/wiki/Vancouver.

“British Columbia - postal codes.” Geonames, geonames.org, 12 Feb. 2021, www.geonames.org/postal-codes/CA/BC/british-columbia.html

Statistics Canada. 2017. Vancouver [Census metropolitan area], British Columbia and British Columbia [Province] (table). Census Profile. 2016 Census. Statistics Canada Catalogue no. 98-316-X2016001. Ottawa. Released November 29, 2017.

<https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/prof/index.cfm?Lang=E> (accessed February 12, 2021).