

TOURIST PARENTS PROJECT

travel around South
America

INTRODUCTION

My parents want to travel around South America and visit the main museums in Bogota-Colombia, La Paz-Bolivia, Rio de Janeiro-Brazil and Buenos Aires-Argentina. They don't know much about museums and want me to help them with data science to find out which are the top 10 in each city.

Those interested in the project are people who want to make trips and find the most recommended sites according to their specific tastes, with all the information that is around these sites.

THE SOURCE OF THE DATA

The data was acquired by Foursquare, filtering museums for these cities and making the respective analysis of the top best-rated museums, and grouping into 5 clusters to find the most visited sites around these places.

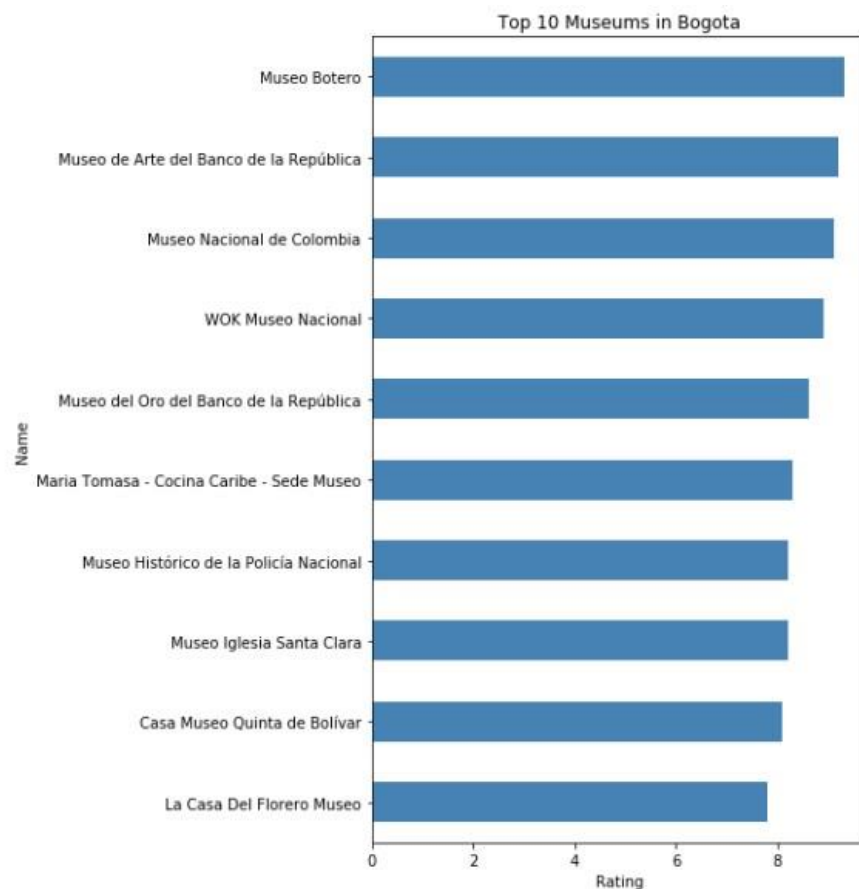
METHODOLOGY

- The main component in this project was the extraction of data using Foursquare APIs, organizing the information in dataframes, searching through the list of museums and finding the rating of each one.
- Use bar ranking to select the top 10 museums in each city.
- From this, you group each museum into its respective category, make the analysis of each museum and create a dataframe with the 5 most recommended places for each museum.
- run K-mens in five clusters and finally be able to visualize and decide which museums to visit according to personal interest.

RESULTS

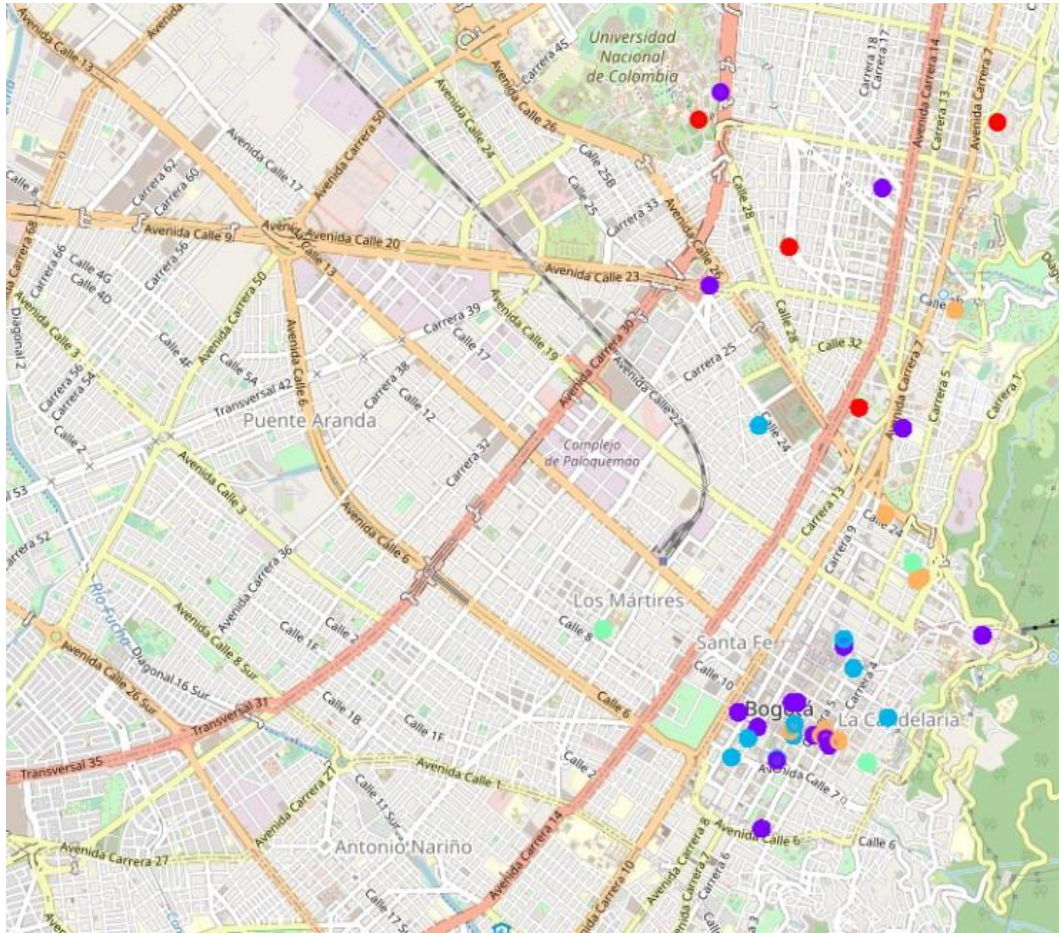


BOGOTÁ



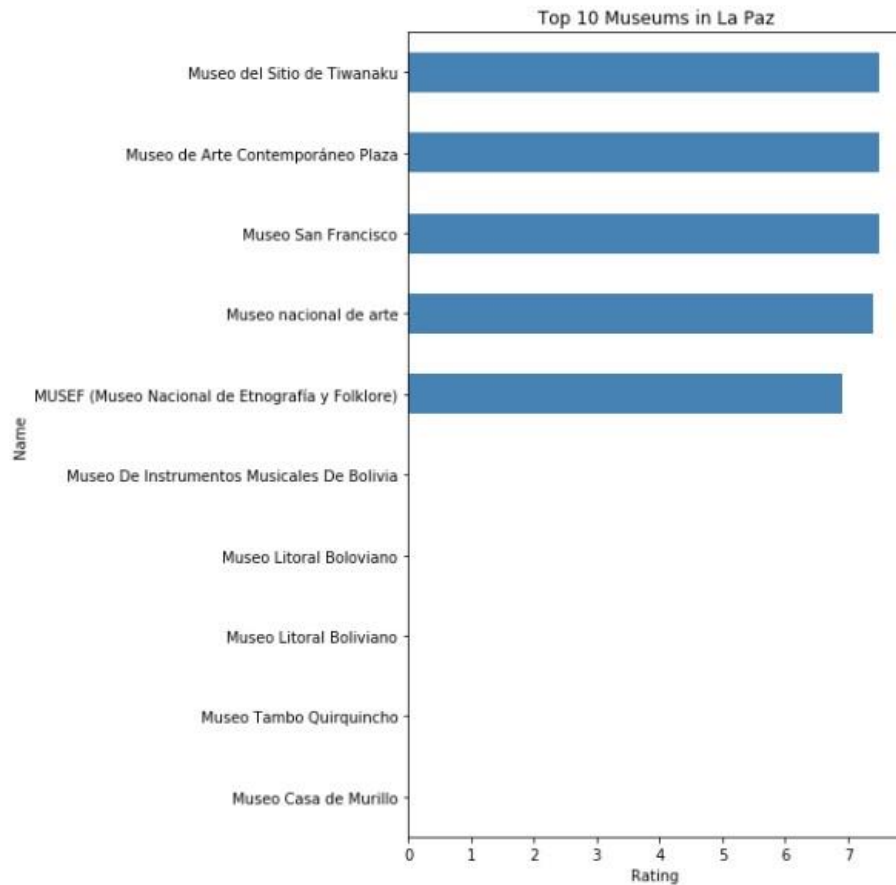
The following museums were found, the first 10 seem to be very interesting due to the excellent rating of tourists, where the first is a museum of a very famous Colombian painter

BOGOTÁ



5 clusters were generated and found in different interests, art museums, history museums, science museums, bars and restaurants in these points of interest.

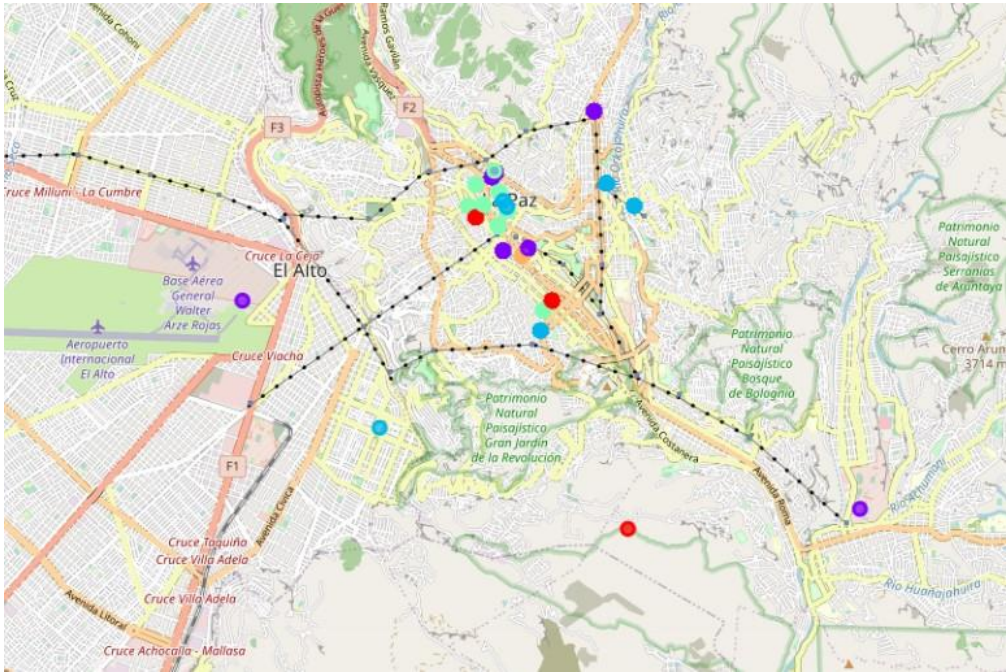
LA PAZ



In La Paz only 5 museums were ranked and compared to the museums in Bogota it has a rating between 8 and 7, showing less acceptance by tourists.

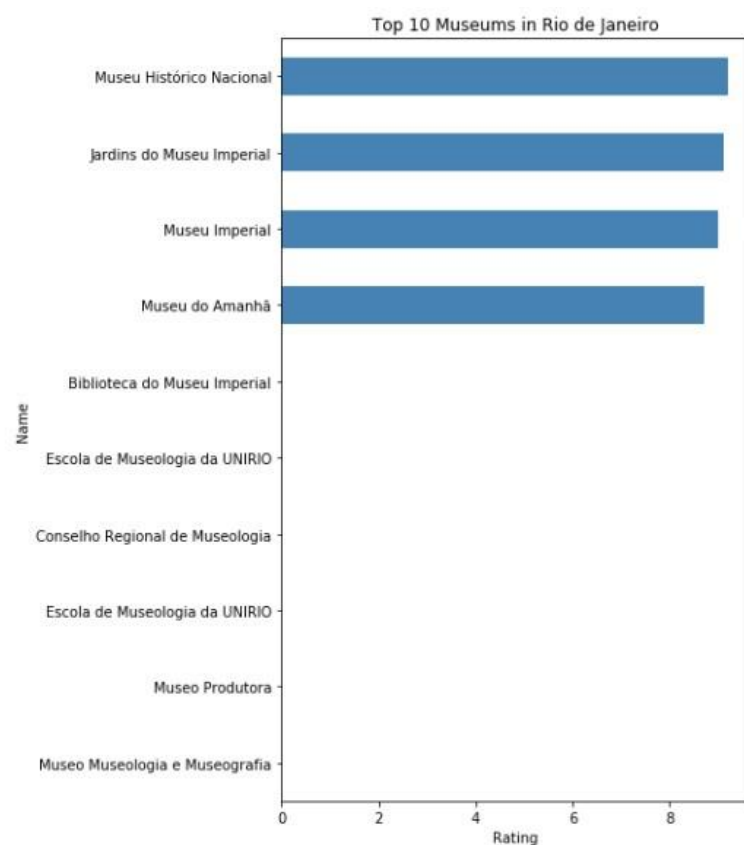
There are other museums but they have not been ranked, it may be due to a lack of publicity or lack of information technology.

LA PAZ



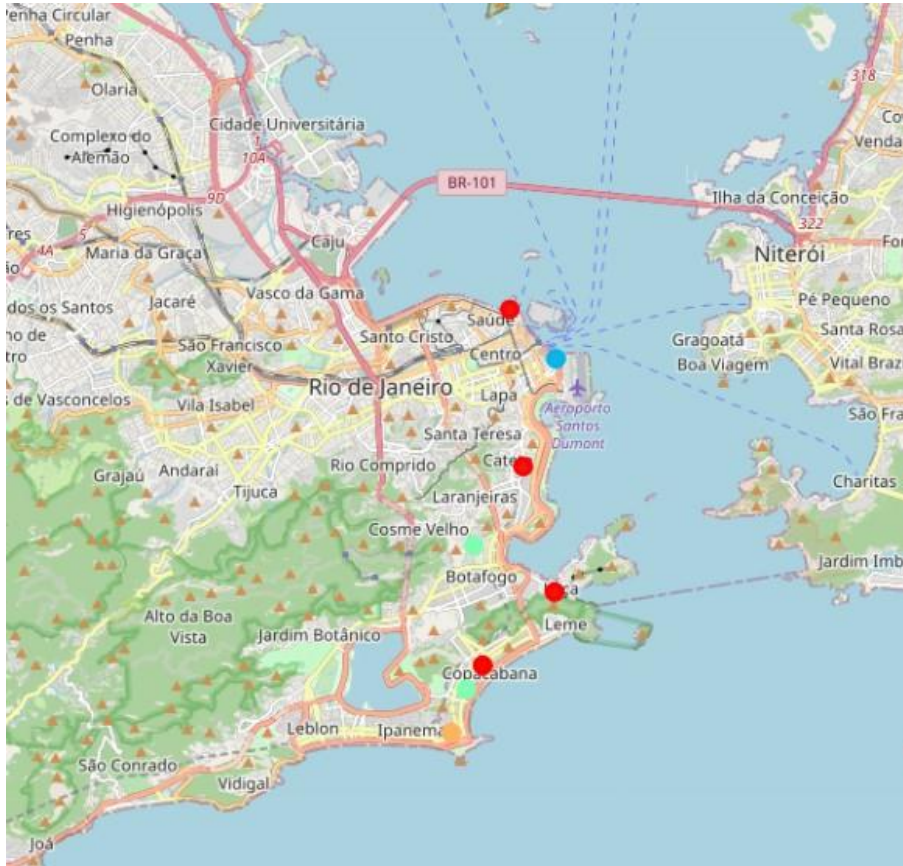
the museums in La Paz are less concentrated than in Bogota and it was also observed that the clusters do not show much information around these museums, due to this it is better to visit museums where there is the largest concertation of clusters

RIO DE JANEIRO



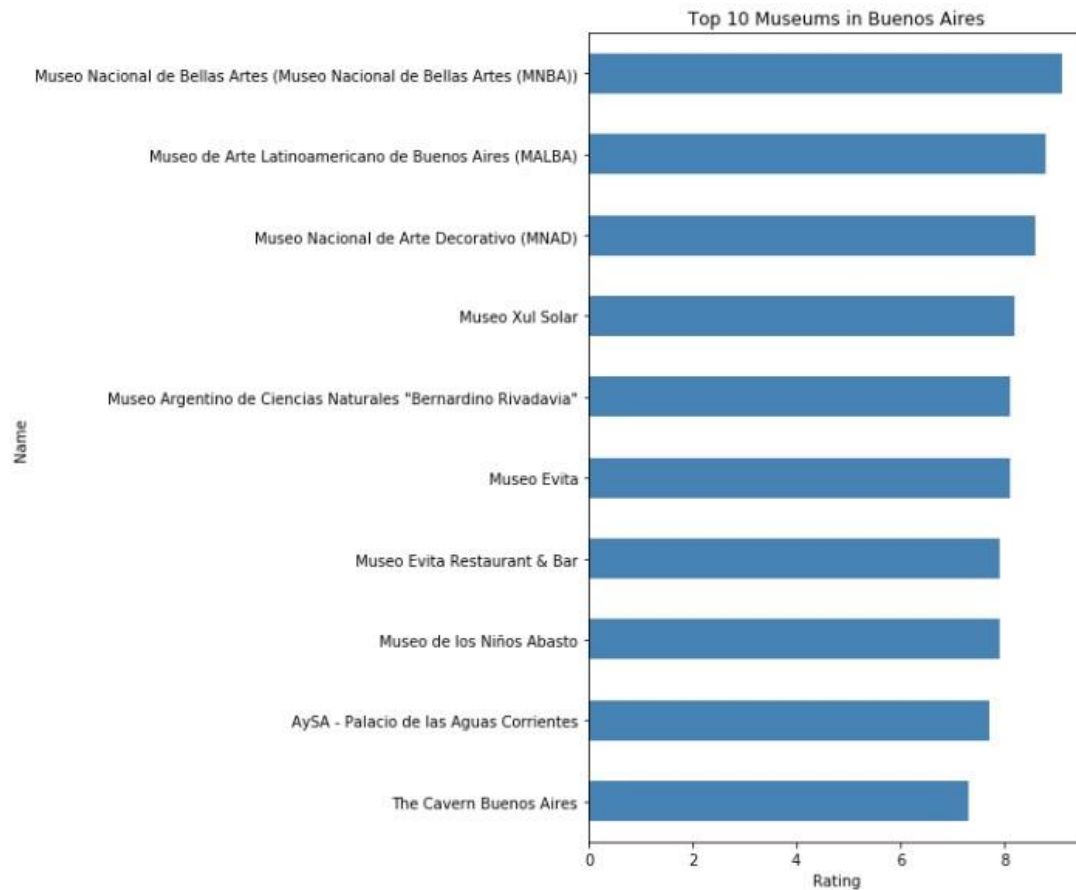
It is curious to observe that Rio de Janeiro, being such a tourist city, does not have a tourism to museums, only 4 with a good rating are observed.

RIO DE JANEIRO



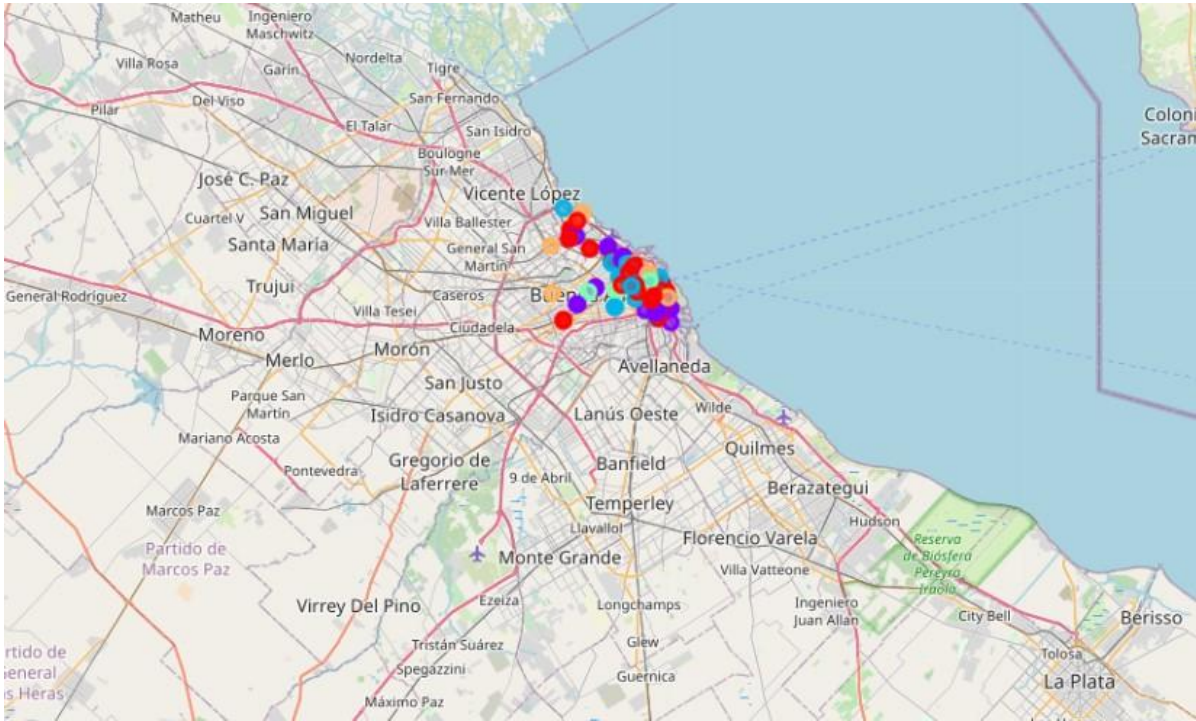
The distribution of museums in the city of Rio de Janeiro is very dispersed, if you want to know a museum, you must have an idea of what you like or you can waste a lot of time on your trip around the city

BUENOS AIRES



The city of Buenos Aires similarly that Bogota has a great affluence in its museums, it seems that it has very good art museums according to the qualification of the tourists.

BUENOS AIRES



The city of Buenos Aires seems that its museums are concentrated in the center of the city, this makes it easy to visit and mainly the art museums.

DISCUSSION

- The cities to take more time to visit museums are Bogota and Buenos Aires, Bogota shows very interesting museums of History and Buenos Aires very interesting art museums.
- Rio de Janeiro and La Paz, are cities that have another focus of tourism, tourists do not seem interested in museums.

CONCLUSION

If my parents like to visit museums, I recommend Bogota and Buenos Aires, the only problem is that they are at the ends of South America !!!