

Report On

# **Predication of Good Restaurant place in Rio De Janeiro**

*By: Kalpesh Shah*

## **1. Introduction**

### **1.1. Background**

This report is regarding the Restaurant Business in A city of brazil. Restaurant is the ever growing business as the basic requirement for any civilization is food. This assignment deals with the various types of the Restaurants which perform well near the coastline of the Rio de Janeiro.

As per the study the using of productive models to analyse the restaurant pattern in the city will help the restaurant grow better and attract the more customers. This restaurant can attract the more customers by identifying the popular cuisines near the vicinity.

### **1.2. Problem**

- In this assignment we talk about How good Rio de Janeiro is to open a restaurant. And would it be a place with lots of reviews from customers? Which place seems to be the most popular and the last question would be Is there a more popular restaurant in the area and what cuisines are preferred around?
- The problem will be solved using the Foursquare API, looking at User Count and Tip Count. This issue will help everyone who wants to open a restaurant in Rio de Janeiro and wants to know if it is a good option where they intend to open.

### **1.3. Data**

- The data that will be using is Foursquare's data for Rio de Janeiro city. We will focus on venues of restaurant type. The popularity will be an indicator for how good an area is for a restaurant.

- Additional Information will be collected by Wikipedia and other sources to identify other environmental parameters

## 2. Data Process

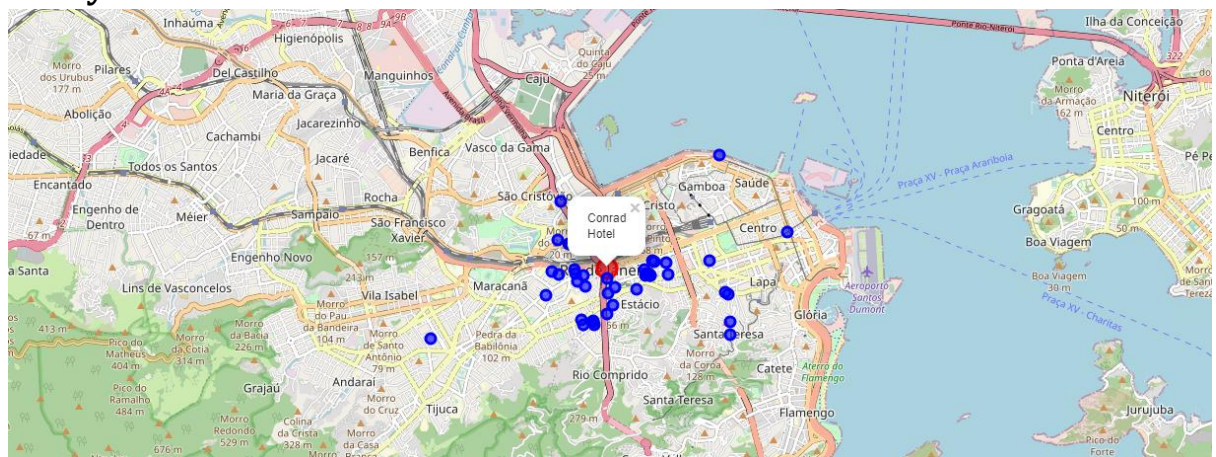
The data has been identified by the FourSquares Website API. We will import the data using the Python Note Book by using the Jupyter or the Google Colab Tool.

The data will be further fetched and cleaned for the required data for the particular area. For this assignment we are targeting the Rio De Janeiro City of the Brazil.

	name	categories	address	lat	lng	labeledLatlngs	distance	cc	city	state	country	formattedAddress
0	Riã Restaurant	Bistro	Rua Riachuelo, 242	-22.914733	-43.188829	[{"label": "display", "lat": -22.914733, "lng": ...}	2146	BR	Rio de Janeiro	RJ	Brasil	[Rua Riachuelo, 242, Rio de Janeiro, RJ, Brasil]
1	Restaurante Pitada	Brazilian Restaurant	NaN	-22.909734	-43.191598	[{"label": "display", "lat": -22.9097338088607...	1828	BR	Rio de Janeiro	RJ	Brasil	[Rio de Janeiro, RJ, Brasil]
2	Restaurant El Duero	Restaurant	Navio Soberano	-22.892851	-43.189795	[{"label": "display", "lat": -22.8928508209919...	2849	BR	Rio de Janeiro	RJ	Brasil	[Navio Soberano, Rio de Janeiro, RJ, Brasil]
3	Restaurante Rampinha	Brazilian Restaurant	Pç. da Bandeira, 201	-22.911713	-43.214886	[{"label": "display", "lat": -22.9117127074659...	570	BR	Rio de Janeiro	RJ	Brasil	[Pç. da Bandeira, 201, Rio de Janeiro, RJ, 202...
4	Restaurante Drink's	Comfort Food Restaurant	Travessa Angustura	-22.913848	-43.213167	[{"label": "display", "lat": -22.9138483642793...	500	BR	Rio de Janeiro	RJ	Brasil	[Travessa Angustura (Rua do Matoso), Rio de Ja...

Above data shows the Cleaned data for the assignment. It displays the parameters like Name of restaurant, Cuisine category of Restaurant, Address and the Location Parameters. This is the basic Data required for our analysis.

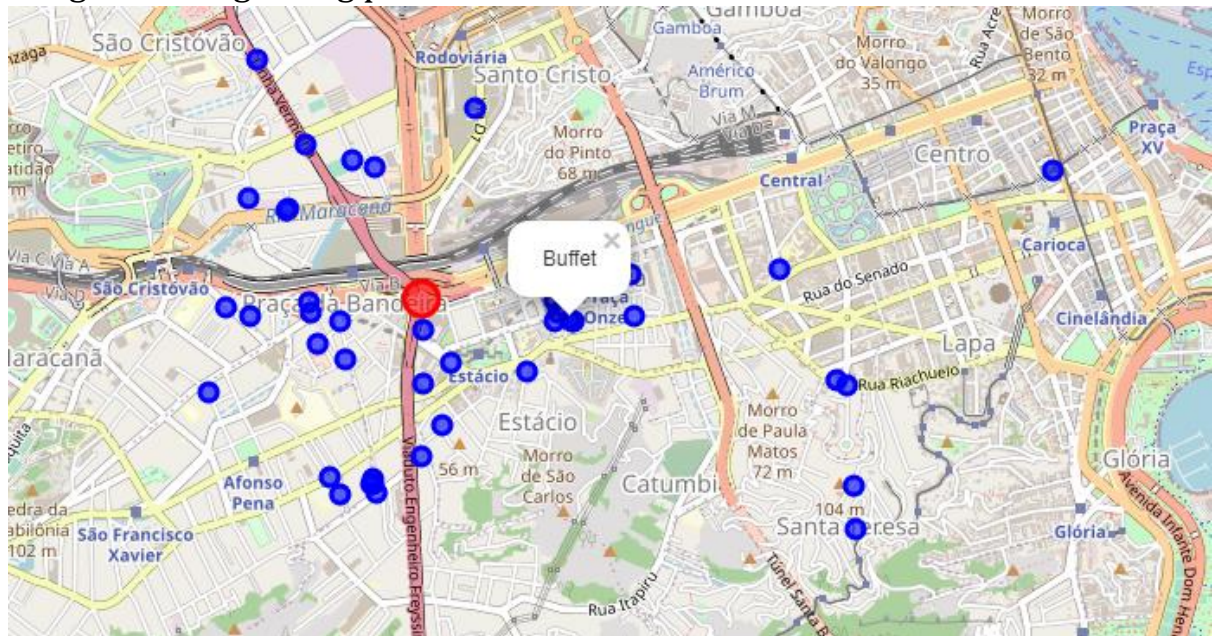
## 3. Analysis



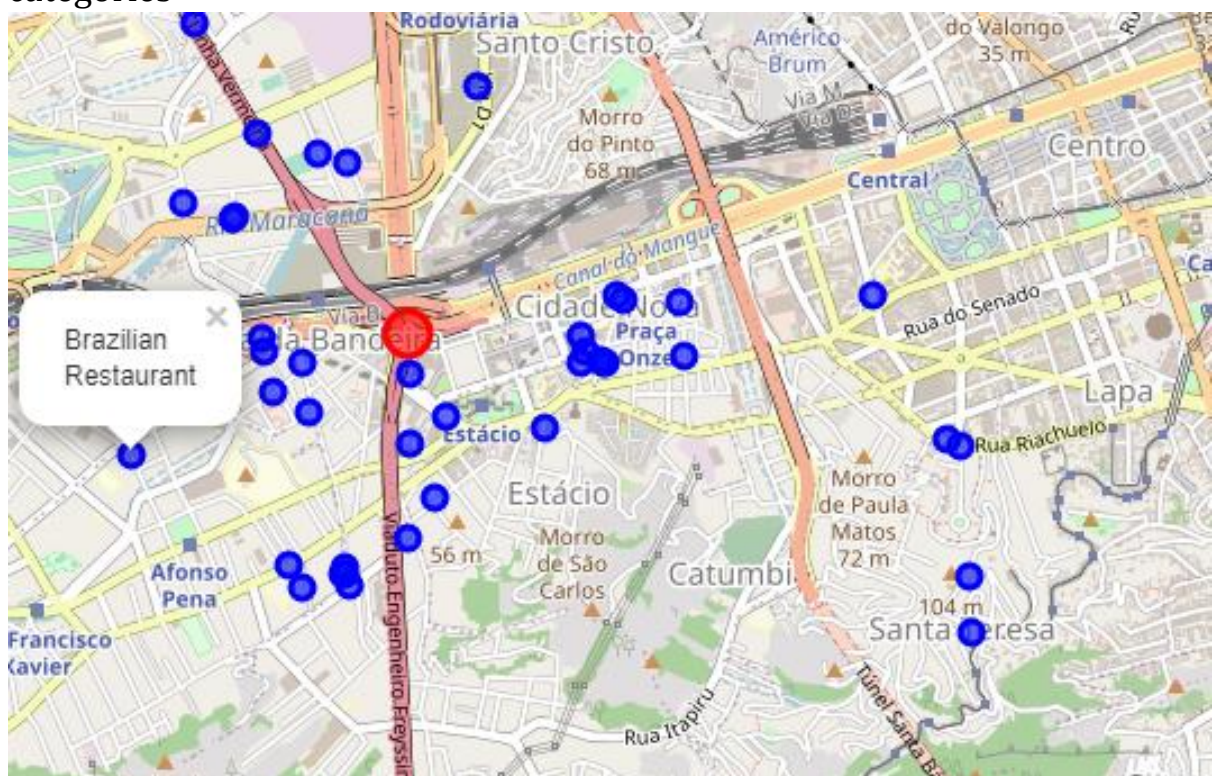
We have generated above map using the code and also plotted some relative points required for analysis using Folium. The Red Dot Shows a Huge Hotel Named Conrad. The Blue dots represent the local restaurant.



The Conrad hotel is our perspective location of target for this assignment regarding predication.



In this second screen the Clusters of Hotels are shown and what they are categories



This screen shows the hotel located out of the cluster and outskirts of the City. The hotel Speciality is indicated in the dialogue box hovered above it. By analysing the data there are few results we can predict.

#### **4. Result**

Restaurant culture is more famous in Santo Cristo then the Centro. Also If you notice keenly there are less restaurants near the coastline. To answer this question, we can consider the environmental factors that the tides and winds are not even in this area. Which is why the owners preferring not to get close to the Coastline. Also Restaurants near the huge Hotels and motels along the highways grow strong economically.

#### **5. Predication**

By considering the facts, the restaurant is more likely to grow in San Cristo area than the Centro area. The Multi Cuisine and the Buffet Category of the restaurants are more preferred in the area than the Traditional Brazilian Cuisine. It the good choice for the Business Owner to go along the Highways for Business Restaurants.

#### **6. Conclusion**

##### **6.1. For travelers:**

- If the Travelers are looking for real local brazilin taste they must move to the remote locations away from the busy streets.
- Conrad Hotel is the one stop shop for Travelers.

##### **6.2. For business owners:**

- Restaurants make a good money if they are more towards the coast side.
- Restaurants near hotels make more money.
- Buffets and Multi- Cuisine restaurants are mostly preferred in Brazil Coast Side.