

The best place to stay in Milan



How to find the best place to sleep in Milan

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How to find the best place to sleep to near La Scala

Introduction

Next week the famous classical musician Lang Lang is going to play at La Scala opera theater. I have to choose the best place for him in Milan according to the fact that he wants to stay not so far from the theater and he wants to stay nearby Italian restaurants. He loves Italian food.

Methodology

I have used the Foursquare application to find the best place for the musician, according to the fact that he doesn't want to stay too far from the Opera Theater and he wants to stay in a place full of restaurants.

To follow, the dataset of the nearest restaurant nearby La Scala Opera Theatre.

As mentioned before, the following dataset has done using Forsquare.



	name	categories	address	cc	city	country	crossStreet	distance	formattedAddress
0	Maio Restaurant	Italian Restaurant	Piazza del Duomo	IT	Milano	Italia	NaN	333	[Piazza del Duomo 20121 Milano Lombardia, Ita...
1	Restaurant	Café	Duomo Le Plaza	IT	Milano	Italia	NaN	178	[Duomo Le Plaza, Milano Lombardia, Italia]
2	Japan Lounge - Restaurant & Drink	Sushi Restaurant	Via San Vito, 7	IT	Milano	Italia	NaN	968	[Via San Vito, 7, 20123 Milano Lombardia, Italia]
3	Pacific Milano Restaurant	Breakfast Spot	Via Luigi Galvani 12	IT	Milano	Italia	Hilton Milan	2312	[Via Luigi Galvani 12 (Hilton Milan), 20124 Mi...
4	James Beard American Restaurant at Seven Stars...	American Restaurant	NaN	IT	NaN	Italia	NaN	108	[Italia]
5	PanEVO Restaurant	Mediterranean Restaurant	Piazza della Repubblica 20	IT	Milano	Italia	NaN	1570	[Piazza della Repubblica 20, 20124 Milano Lomb...

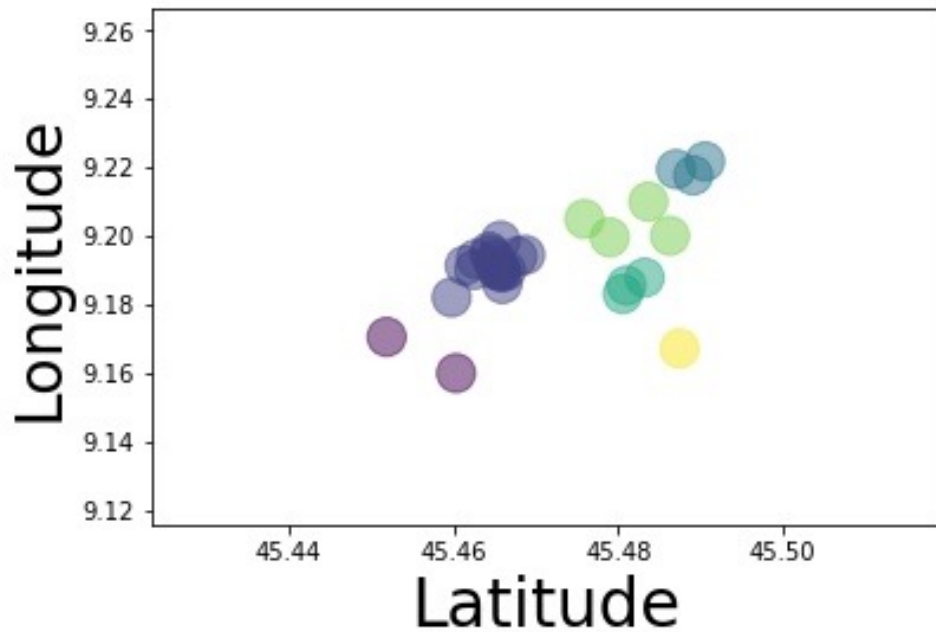
Data set

And the corresponded latitude and longitude.

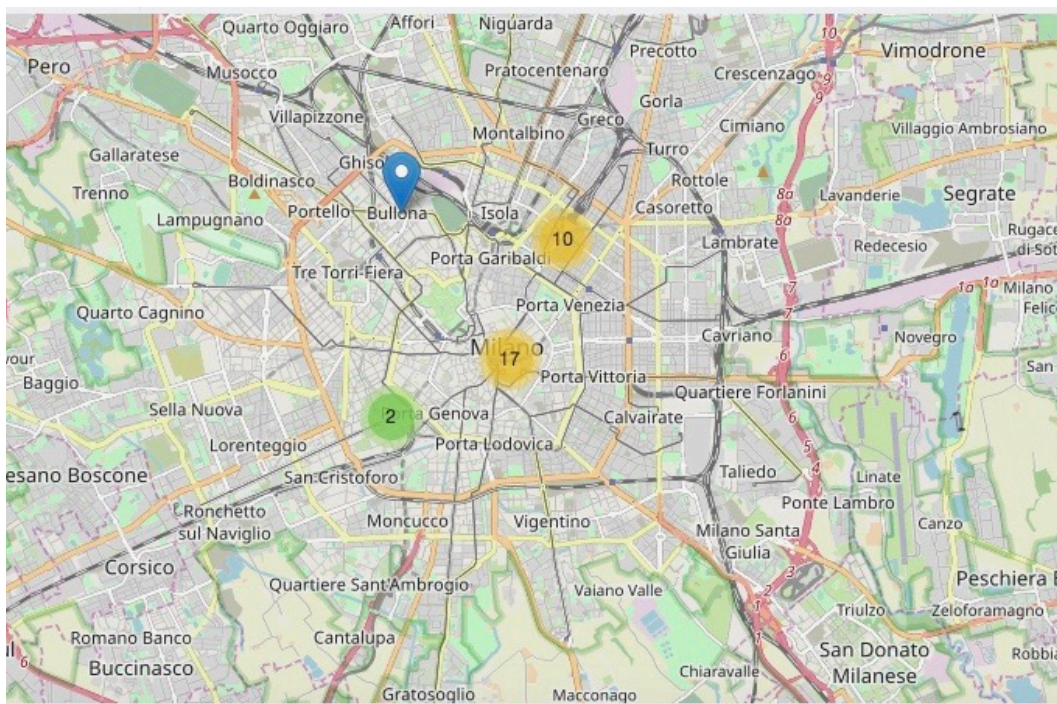
	location.lat	location.lng
0	45.464875	9.191741
1	45.465582	9.189778
2	45.459725	9.181989
3	45.486245	9.199966
4	45.466371	9.189794
5	45.478948	9.199487
6	45.465838	9.189337
7	45.465609	9.189940
8	45.465891	9.185910
9	45.465237	9.189843
10	45.451837	9.170441
11	45.465058	9.193168
12	45.480979	9.185445
13	45.468672	9.194426

Latitude and longitude

Using the Machine Learning algorithm of the K-Means Clustering, with the euclidean metric, I have founded the latitude and longitude with the major number of restaurant thereabout.



Clustering of latitude and longitude



Cluster map

To have a better view of the clusters in the city of Milan, I have used the folium library.

Using the markerCluster function, the view of the clusters restaurants is in the previews page.

Conclusions

To find the best places to stay in Milan, not so far from the La Scala Opera theatre and full of restaurants in the thereabout, I have used Foresquare to find restaurants near the theatre. Then I used the corresponding latitude and longitude to create clusters using the K-Means Clusters algorithm. Finally I have used the MarkerCluster to visualize the restaurant clusters on the Map. The conclusion is that the best place for Lang Lang is the area marked with the cluster 10, or the area marked with the cluster 17.

