

# The best Italian restaurant in Barcelona

## A description of the problem and a discussion of the background. (15 marks)

In this moment , we would like to open a new restaurant , the first option it's an italian restaurant. To know if it's a good option there are several points to consider. One of the most important is where the new restaurant will be placed. Also we go to study the customs in the diferents Neighborhood

## A description of the data and how it will be used to solve the problem. (15 marks)

To find the best location to open a Italian restaurant, I will use Barcelona data that contains the latitude and longitude of administrative units of the city. The data is public available: (<https://opendata-ajuntament.barcelona.cat/en>) To have more information on each restaurants, I will use the Foursquare API.

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	ID	Name	Category
0	4b3bcb26f964a520497b25e3	Gelaaati! di Marco	Ice Cream Shop
1	4c45dcab429a0f479cb94a1e	Barrio Gótico	Neighborhood
2	4c02b3419a7920a149d4ce79	La Alcoba Azul	Spanish Restaurant
3	5738b94ccd1046368535c03c	The Wittmore	Hotel
4	4d02924bc2e53704aae2ab67	Macchina Pasta Bar	Italian Restaurant
...	...	...	...
95	511ec859e4b06dc35344328e	Spice Café	Café
96	4c0d3610d64c0f47665e265d	Platja de la Barceloneta (Playa de la Barcelon...	Beach
97	4adcda4df964a520064021e3	Quimet & Quimet	Tapas Restaurant
98	5a5cca4fc0cacb7755a68242	The Fish & Chips Shop	Fish & Chips Shop
99	53a1425c498e96b9f2540b55	Palo Cortao	Tapas Restaurant

100 rows × 3 columns

	BoroughID	Borough	NeighborhoodID	Neighborhood	Latitude	Longitude
0	1	Ciutat Vella	1	el Raval	41.379518	2.168368
1	1	Ciutat Vella	2	el Barri Gòtic	41.383395	2.176912
2	1	Ciutat Vella	3	la Barceloneta	41.380653	2.189927
3	1	Ciutat Vella	4	Sant Pere, Santa Caterina i la Ribera	41.386010	2.177838
4	2	Eixample	5	el Fort Pienc	41.395925	2.182325