

Recommend Neighborhood to Open an Indian Restaurant near Dubai Mall, Dubai



Family enterprises running a restaurant business for years in India wish to open a restaurant in Dubai. They possess core Skills in the food industry as well as great supply chain. However to have appropriate footfalls in their restaurant they wish to choose location very wisely.

Dubai Mall is considered to be center of Dubai and considering the overall footfall there, they wish to open a restaurant near Dubai Mall. However the family is not entirely sure of the neighborhood they should opt for.

Thus they have assigned a project to me to analyze neighborhoods in the area surrounding Dubai Mall within radius of 10 Kms to zero down on best place to open a restaurant.

In this project we will try to find an optimal location for a restaurant. Specifically, this report will be targeted to stakeholders interested in opening an **Indian restaurant** in **Dubai**, UAE.

Since there are lots of restaurants in Berlin we will try to detect locations that are not already crowded with restaurants. We are also particularly interested in areas with no Italian restaurants in vicinity. We would also prefer locations as close to city center as possible, if first two conditions are met.

We will use our data science powers to generate a few most promising neighborhoods based on this criteria. Advantages of each area will then be clearly expressed so that best possible final location can be chosen by stakeholders.

Data

Based on definition of our problem, factors that will influence our decision are:

- Number of existing restaurants in the neighborhood (any type of restaurant)
- Number of and distance to Indian restaurants in the neighborhood, if any
- Distance of neighborhood from city center

We decided to use regularly spaced grid of locations, centered around city center, to define our neighborhoods.

Following data sources will be needed to extract/generate the required information:

- Centers of candidate areas will be generated algorithmically and approximate addresses of centers of those areas will be obtained using Google Maps API reverse geocoding
- Number of restaurants and their type and location in every neighborhood will be obtained using Foursquare API

Coordinate of Dubai center will be obtained using Google Maps API geocoding of well-known Dubai location (Dubai Mall)