

Your company Ltd Restaurant at Istanbul



Where to open your restaurant?

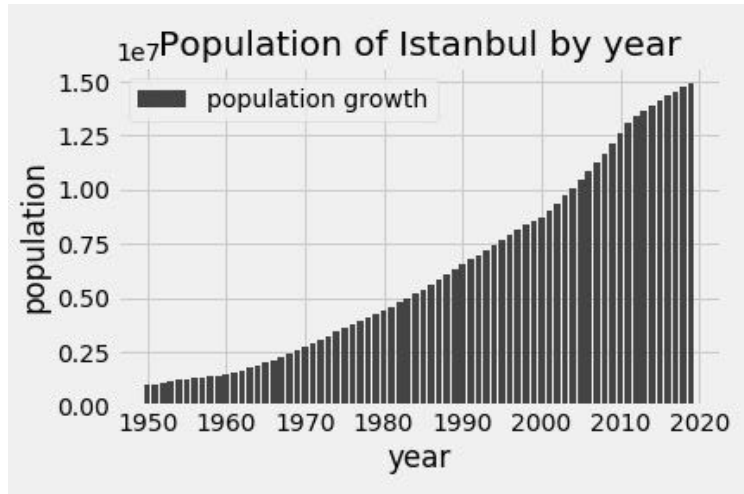
Data science case study

Intro:

Datasets source and links at the end of the report

Your company is looking for a good place to open a restaurant at Istanbul, and you as a part of the data science department your role is to find the right spot to open that restaurant regarding different factors.

Istanbul is a city in Turkey and it is one of the 10 biggest cities in the world. north-western Turkey within the Marmara region on a total area of 5,343 square kilometers. The population of Istanbul went from 967000 in 1950 to 14968000 in 2019.

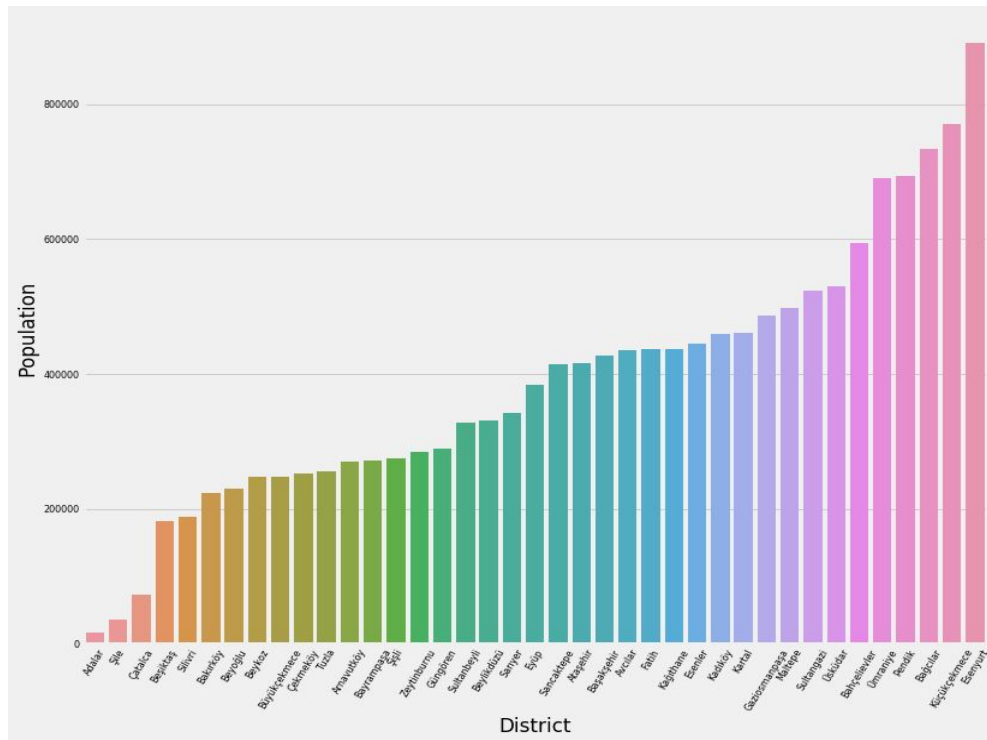


When you say population restaurants owners say income. Some may say social situation is a factor to be considered, Well if you offer a good product people always are willing to pay you a price for it.

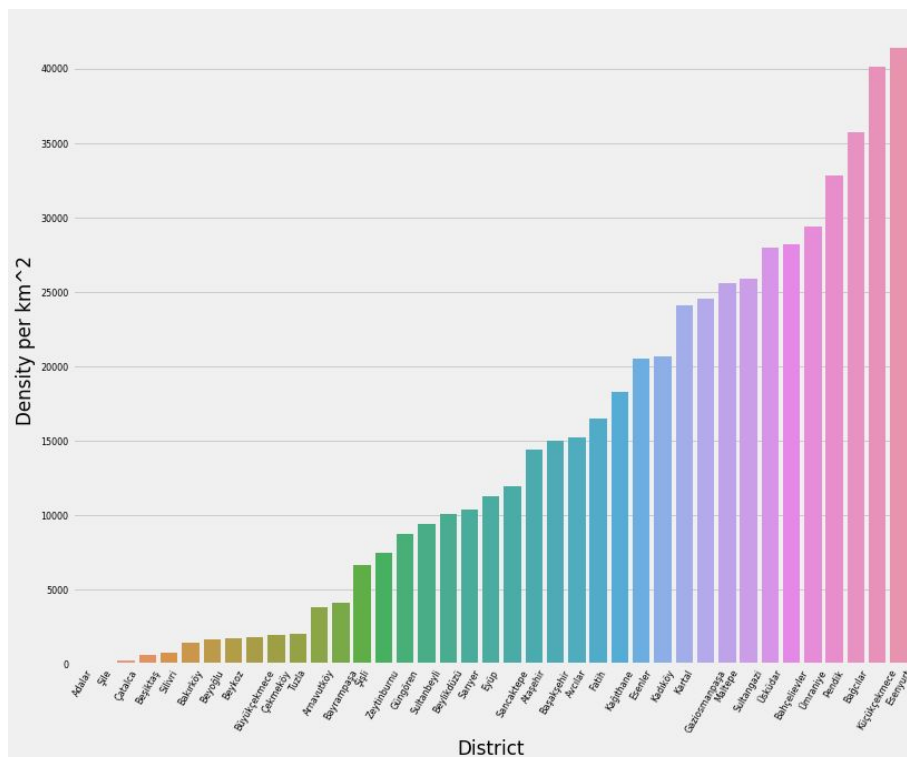
In addition, Istanbul has 39 Districts



with population as shown in this figure:



The density per Km² is as follows:



A factor to be considered is that a population may be big at a District but not its density. Take 5 examples from the above two figures:

```
df2.nlargest(5, 'Population', keep='first')
```

	District	Population	Area per km ²	Density per km ²
17	Esenyurt	891120	4313	20661
25	Küçükçekmece	770317	3754	20519
4	Bağcılar	734369	2236	32842
27	Pendik	693599	17999	3853
36	Ümraniye	690193	4531	15232


```
[77] df2.nlargest(5, 'Density per km^2', keep='first')
```

	District	Population	Area per km ²	Density per km ²
20	Gaziosmanpaşa	487046	1176	41415
21	Güngören	289331	721	40129
5	Bahçelievler	594053	1662	35743
4	Bağcılar	734369	2236	32842
23	Kağıthane	437026	1487	29389

Esenyurt and Küçükçekmece may have the biggest population but they are big areas so people are distributed.

Another factor to be concerned when opening a restaurant is ethnicities at the city. In Istanbul there are Arabs, Armenians, Bulgarians, Greeks, Jews "Booyakasha to Ali G", Kurds, Levantines, and other ethnicities are minorities.

Some of great foods served in Istanbul restaurants are:

Traditional Turkish Breakfast, Menemen (Turkish Scrambled Eggs), Cay (Turkish Tea), Kahvesi (Turkish Coffee), Simit (Turkish Bagel), Meze Lahmacun (Turkish Pizza), Pide, Icli Kofte, Kokorec, Midye Dolma, Balık Ekmek, Baklava, Ayran, Juice: Fresh and Pickled, Chestnuts & Corn, Turkish Beer & Wine, Dondurma (Turkish Ice Cream)...

Links & Datasets:

<https://www.nomadepicureans.com/europe/turkey/street-food-istanbul/>

https://en.wikipedia.org/wiki/Demographics_of_Istanbul#Other_ethnicities

https://github.com/AliKhyar/Your-restaurant-at-Istanbul/blob/master/population_history.csv

https://github.com/AliKhyar/Your-restaurant-at-Istanbul/blob/master/population_by_districts.ipynb