**The Battle of Neighborhoods (Week 1) – A Capstone Project**

**Opening a Turkish Restaurant in Bucharest, Romania**

**Problem Statement:** What are the possible locations for someone to open a Turkish restaurant in Bucharest.

**1.Introduction**

**1.1 Background**

Bucharest is the capital and largest city of Romania, as well as it’s cultural, financial and industrial centre. It is in the southeast of the country, at [44°25′57″N  26°06′14″E](https://geohack.toolforge.org/geohack.php?pagename=Bucharest&params=44_25_57_N_26_06_14_E_scale:100000), on the banks of the Dambovita River, less than 60 km (37.3 mi) north of the [Danube River](https://en.wikipedia.org/wiki/Danube) and the [Bulgarian](https://en.wikipedia.org/wiki/Bulgaria) border.

Economically, Bucharest is the most prosperous city in Romania. The city has a number of large convention facilities, educational institutes, cultural venues, traditional 'shopping arcades' and recreational areas.

The city proper is administratively known as the 'Municipality of Bucharest' and has the same administrative level as that of a national [county](https://en.wikipedia.org/wiki/Counties_of_Romania), being further subdivided into six [sectors](https://en.wikipedia.org/wiki/Sectors_of_Bucharest), each governed by a local mayor.

Bucharest has 2 million populations and consists of 6 sectors. Neighborhoods and populations in sectors are as below:

* Sector 1 (population 227,717): Dorobanți, Băneasa, Aviației, Pipera, Primăverii, Dămăroaia, Grivița
* Sector 2 (population 357,338): Pantelimon, Colentina, Iancului, Tei, Floreasca, Moșilor, Obor, Fundeni,
* Sector 3 (population 399,231): Vitan, Dudești, Titan, Centrul Civic, Dristor, Lipscani
* Sector 4 (population 300,331): Berceni, Olteniței, Progresul, Văcărești, Tineretului
* Sector 5 (population 288,690): Rahova, Ferentari, Giurgiului, Cotroceni, 13 Septembrie, Dealul Spirii
* Sector 6 (population 371,060): Giulești, Crângași, Drumul Taberei, Militari, Grozăvești (Regie), Ghencea

As stated by the Mercer international surveys for quality of life in 231 cities around the world, Bucharest occupied the 109th place in 2019. Bucharest, at number 109, ranks low in the European list but better than other European cities such as Sofia (116th) and Belgrade (139th).

Many neighborhoods, particularly in the southern part of the city, lack sufficient green space, are formed of cramped high density block of flats. This may affect people’s life as well.

**1.2 Problem Explanation**

In this project, I will explore the different neighborhoods of Bucharest and will investigate which area would be good for someone to open a Turkish Restaurant.

**1.3 Why it is of Interest**

Any budding entrepreneur would find this project interesting so that they may change the location details if they want to and do the analysis for the interested area.

**2. Data**

**2.1 Data Sources**

In order to solve the problem, I will get the required data from various data sources as mentioned below:

* I will get the neighborhood data of Bucharest from Wikipedia
* I will use python geocoder library to get geographical coordinates of neighborhoods.
* I will use **Foursquare API** **venues explore** method to get the venues of given neighborhoods of Bucharest.
* I will use **Foursquare API venues method** to get ranks and likes of restaurants by given venue id.

**2.2 Feature Selection and Data Usage**

I will use neighborhood location values to analyze Bucharest geographical structure. I will use folium library of python to draw maps by using given latitude and longitudes of neighborhoods.

I will use the data of populations of neighborhoods who has big population to check if they may need a new restaurant.

I will also classify neighborhoods by using venues distribution and counts. In this way, I will find similarities of neighborhoods which will help me to choose location for opening a new restaurant. Similar structured neighborhoods may handle same type of venue.

I will use venue list category to find distribution of restaurants and Turkish restaurants in neighborhoods.

I will use also ratings and likes of restaurants in the areas. It may help me tos find location with bad rating restaurants which may need a new restaurant.