# **The Battle of Neighborhoods**

## **Opening Turkish Restaurants in Bucharest, Romania**

### **Introduction/Business Problem**

#### **Background Information**

Bucharest is the capital and largest city in the country of Romania. It is also considered the cultural, industrial, and financial center of Romania. Bucharest is located at the following coordinates: 44.4268° N, 26.1025° E. With an estimated population of over 2 million people, it is divided up into 6 neighborhoods and are listed below:

* Sector 1
* Sector 2
* Sector 3
* Sector 4
* Sector 5
* Sector 6

#### **Problem**

In this project, because Bucharest is such a cultural city, I want to investigate if there are any locations that should open Turkish restaurants and whether or not there is a need for it.

#### **Interest**

Anyone who wants to open a new venue in any geographic location may be interested in this project by modifying search criteria.

### **Data**

#### **Data Sources**

To consider the problem we can list the following data sources, noted below:

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

#### **Feature Selection and Data Usage**

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

I will use populations of neighborhoods who have big populations who may need a new restaurant.

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

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

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