

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

Introduction/Business Problem

Business Problem:

In Bogota City, Colombia, someone is looking to open a restaurant and wants to know where is the best place to open it.

We will use data analytics to find a neighborhood with a similar offer.

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

From foursquares the venues nearby each of the city neighborhoods.

create the API request URL

```
url =  
'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{&radius={}&limit={}'.format(  
    CLIENT_ID,  
    CLIENT_SECRET,  
    VERSION,  
    lat,  
    lng,  
    radius,  
    LIMIT)
```

From local open databases the coordinates for the neighborhoods.

<https://bogota-laburbano.opendatasoft.com/explore/dataset/georeferencia-puntual-por-localidad/download?format=csv>

A clusterization for restaurant only venues will be run and with that typification, the best neighborhood will be determined using the most common venue category for each cluster.