Untitled

November 30, 2020

0.1 1. Introduction: COFFEE PLACE IN THESSALONIKI

In such a large and rich of coffee culture city like Thessaloniki, Greece, it will be competitive to start up coffee business. In this case my contractor is a humble local man who has contacted me to give advises and draw up essential lines of business prediction and back-up plans (but this part we will just discuss about predicting hot spot).

0.2 2. Orientation

First of all we need to collect Data of all coffee shops in Thessaloniki including their name, id, location (address, latitude, longitude) then pick the "hot" neighborhood where locates most of the venues. In order to asset Data we use FourSquare and apply folium for visualizing a particular neighbor in which that we will observe customer "traffic" and predict an appropriate location of new coffee shop in town. In this case you will find its temporary name on the folium map, "Oriste!" (Meaning "Here It Is!" in Greek)

0.3 3. Execution steps

We import all the tools we need.

```
[1]: import requests # library to handle requests
  import pandas as pd # library for data analysis
  import numpy as np
  !pip install folium
  import folium

Requirement already satisfied: folium in
  /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (0.5.0)
```

```
Requirement already satisfied: folium in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (0.5.0)
Requirement already satisfied: branca in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from folium)
(0.4.1)
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(2.24.0)
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/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from folium)
(1.15.0)
```

```
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Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->folium) (1.25.11)
Requirement already satisfied: chardet<4,>=3.0.2 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from requests->folium) (3.0.4)
```

Apply your credential ID n Foursquare

```
[6]: CLIENT_ID = '4XV4MUEEXOOQGF55PBPI4VCIUN3YTWEHKHQGLOT11QXGE2NA'
CLIENT_SECRET = 'APIDDD1AYMIJ4CVDNVYNJSZRQWZ4VEAHW2WEBDQ4VX31NQ4Q'
VERSION = 20180604
LIMIT = 40
print ('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET:'+ CLIENT_SECRET)
```

Your credentails:

CLIENT_ID: 4XV4MUEEXOOQGF55PBP14VCIUN3YTWEHKHQGLOT11QXGE2NA CLIENT_SECRET:APIDDD1AYMIJ4CVDNVYNJSZRQWZ4VEAHW2WEBDQ4VX31NQ4Q

Get requests near Thessaloniki city

Transform data into json then request geocode

```
[18]: d = data.json()["response"]
      d.keys()
[18]: dict_keys(['suggestedFilters', 'geocode', 'headerLocation',
      'headerFullLocation', 'headerLocationGranularity', 'query', 'totalResults',
      'suggestedBounds', 'groups'])
[20]: d["headerLocationGranularity"], d["headerLocation"], d["headerFullLocation"]
[20]: ('city', 'Thessaloníki', 'Thessaloníki')
[22]: d["suggestedBounds"], d["totalResults"]
[22]: ({'ne': {'lat': 40.65073224977761, 'lng': 22.941163388173987},
        'sw': {'lat': 40.635032627617214, 'lng': 22.918850791039336}},
       39)
[23]: d["geocode"]
[23]: {'what': '',
       'where': 'thessaloniki',
       'center': {'lat': 40.64361, 'lng': 22.93086},
       'displayString': 'Thessaloníki, Central Macedonia, Greece',
       'cc': 'GR',
       'geometry': {'bounds': {'ne': {'lat': 40.71540595456036,
          'lng': 23.023440674362327},
         'sw': {'lat': 40.52794000897531, 'lng': 22.848796876532834}}},
       'slug': 'thessaloniki-greece',
       'longId': '72057594038662013'}
     We start creating group including information which is recommended.
[25]: d["groups"][0].keys()
[25]: dict_keys(['type', 'name', 'items'])
[26]: d["groups"][0]["type"], d["groups"][0]["name"]
[26]: ('Recommended Places', 'recommended')
     Creating items of objects coffee shop and their attributes - id, address, name, etc
[28]: items = d["groups"][0]["items"]
      print("number of items: %i" % len(items))
      items[0]
     number of items: 39
```

```
[28]: {'reasons': {'count': 0,
        'items': [{'summary': 'This spot is popular',
          'type': 'general',
          'reasonName': 'globalInteractionReason'}]},
       'venue': {'id': '4f8cf843e4b04bd7c54fe648',
        'name': 'E
                          Γ',
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         'cc': 'GR',
         'city': '0
         'state': '0
         'country': 'E ',
         'formattedAddress': ['\Pi.\Sigma.\Sigma',
          '546 27 0 , 0 ',
          'E ']}.
        'categories': [{'id': '53d6c1b0e4b02351e88a83e8',
          'name': 'Bougatsa Shop',
          'pluralName': 'Bougatsa Shops',
          'shortName': 'Bougatsa Shops',
          'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/snacks_',
           'suffix': '.png'},
          'primary': True}],
        'photos': {'count': 0, 'groups': []}},
       'referralId': 'e-5-4f8cf843e4b04bd7c54fe648-0'}
[30]: df_raw = []
      for item in items:
          venue = item["venue"]
          categories, uid, name, location = venue["categories"], venue["id"], u
       →venue["name"], venue["location"]
          print(location)
          assert len(categories) == 1
          shortname = categories[0]["shortName"]
          address = ''
          if hasattr(location, 'address'):
            address = location['address']
          if not "postalCode" in location:
              continue
          postalcode = location["postalCode"]
          lat = location["lat"]
          lng = location["lng"]
          datarow = (uid, name, shortname, address, postalcode, lat, lng)
```

```
df_raw.append(datarow)
df = pd.DataFrame(df_raw, columns=["uid", "name", "shortname", "address", |
print("found %i cafes" % len(df))
df.head()
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```

```
, ⊖
                ', 'E
                           ']}
     found 25 cafes
[30]:
                              uid
                                                                      name \
      0 4f8cf843e4b04bd7c54fe648
                                                     Ε
                                                              Γ
      1 56a2a05c498ed9b2b1614106
      2 51694cb2e4b07d599519a366 The Blue Cup (The Blue Cup & Speakeasy)
      3 5232ca05498edab594520a6f
                                                                Coffee INC
      4 4b6de067f964a520f1972ce3
                                               Mediterranean Palace Hotel
              shortname address postalcode
                                                  lat
                                                             lng
       Bougatsa Shops
                                   546 27
                                            40.640941 22.928244
      1
            Restaurant
                                    546 26
                                           40.638218 22.934232
              Cocktail
                                   546 25 40.635768 22.935729
      2
      3
                  Café
                                   546 26 40.638410 22.935704
      4
                 Hotel
                                   546 26 40.635746 22.935479
[32]: Thessaloniki_center = d["geocode"]["center"]
      Thessaloniki_center
[32]: {'lat': 40.64361, 'lng': 22.93086}
[34]: from folium import plugins
      map Thessaloniki = folium.Map(location=[40.64361, 22.93086], zoom start=14)
      def add_markers(df):
         for (j, row) in df.iterrows():
              label = folium.Popup(row["name"], parse_html=True)
              folium.CircleMarker(
                  [row["lat"], row["lng"]],
                  radius=5,
                  popup=label,
                  color='red',
                  fill=True,
                  fill_color='#3186cc',
                  fill_opacity=0.7,
                 parse_html=False).add_to(map_Thessaloniki)
      add_markers(df)
      hm data = df[["lat", "lng"]].to numpy().tolist()
      map_Thessaloniki.add_child(plugins.HeatMap(hm_data))
      map_Thessaloniki
```

[34]: <folium.folium.Map at 0x7f0a256ebdd8>

Above is our beautiful town Thessaloniki with little red dots presenting different items. By spotting the clusters of items we can see which neighborhood has density of coffee business.

0.4 3. Conclusion

We will need a location where we can catch out customers from "hot" location we have picked up from the map and stay in a certain distance so as to lessen the competivity of business.

```
[35]: lat = 40.64361
lng = 22.93086
map_Thessaloniki = folium.Map(location=[lat, lng], zoom_start=17)
add_markers(df)
folium.CircleMarker(
        [lat, lng],
        radius=15,
        popup="Oriste!",
        color='green',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(map_Thessaloniki)
map_Thessaloniki
```

[35]: <folium.folium.Map at 0x7f0a257336a0>

Look at the blue buble, here we find out that it will locate in the Train Station. As I know this neighborhood is safe and right at the center, and on the passing-by path of students and workers everyday.