

Capstone Project - Finding Best Biryani Point Near a Location in Chandigarh City.

Applied Data Science Capstone by IBM/Coursera.

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Introduction: Business Problem

In this project, I am trying to find best restaurant to eat chicken biryani for a person who came to Chandigarh for the first time and staying in a Hotel within 5 km range from his location. This project is also targeting the people those want to know the best biryani point in their areas.

As there may be many restaurants within 5 km range so it's difficult to say which one is serving best biryani.

To solve this problem I will use the magic of Data Science.

Data

To solve this problem I required following data about restaurants within 5 km range from the user's location :

1) *whether the restaurant serves biryani or not.*

2) *rating of restaurant from online platforms.*

3) *coordinate's location of restaurant to showing the path on map to the restaurant from user's location.*

4) *user's coordinates location.*

5) *travel time to restaurants from user's location.*

6) *travel distance between restaurant and user's location.*

Following data sources will be needed to extract/generate the required information:

1) *geopy library to get coordinate's location of User.*

2) *foursquare API to explore user's location to get list of nearby restaurants.*

3) *zomato API to get ratings of restaurants.*

4) *(I am using zomato api for ratings because zomato is more used here in Chandigarh than foursquare)*

bing map API to get driving path locations.

Note

1) *I will only select first 100 restaurants with in 5 km range for this project.*

2) *I will use manual searching for getting whether a restaurant serves biryani or not because these restaurants's food menu data is not available in zomato api, foursquare api and uber eat api so I have no option.*

In [2]:

```
### installing librarires
```

```
!pip install geopy # Installing geopy library, this library helps in getting Latitude and Longitude of a given address.
```

```
!pip install folium # map visualizing library.
```

```
import pandas as pd
```

```

#avoiding warnigs
pd.options.mode.chained_assignment = None # avoiding setting with copy warn
ing
import warnings
warnings.simplefilter(action='ignore', category=FutureWarning)

Requirement already satisfied: geopy in /home/jupyterlab/conda/envs/python/
lib/python3.6/site-packages (2.0.0)
Requirement already satisfied: geographiclib<2,>=1.49 in /home/jupyterlab/c
onda/envs/python/lib/python3.6/site-packages (from geopy) (1.50)
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)
Requirement already satisfied: jinja2 in /home/jupyterlab/conda/envs/python
/lib/python3.6/site-packages (from folium) (2.11.2)
Requirement already satisfied: requests in /home/jupyterlab/conda/envs/pyth
on/lib/python3.6/site-packages (from folium) (2.24.0)
Requirement already satisfied: six in /home/jupyterlab/conda/envs/python/li
b/python3.6/site-packages (from folium) (1.15.0)
Requirement already satisfied: MarkupSafe>=0.23 in /home/jupyterlab/conda/e
nv/python/lib/python3.6/site-packages (from jinja2->folium) (1.1.1)
Requirement already satisfied: idna<3,>=2.5 in /home/jupyterlab/conda/envs/
python/lib/python3.6/site-packages (from requests->folium) (2.10)
Requirement already satisfied: certifi>=2017.4.17 in /home/jupyterlab/conda
/envs/python/lib/python3.6/site-packages (from requests->folium) (2020.6.20
)
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 request
s->folium) (1.25.10)
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)

```

In [3]:

```

import pandas as pd
import numpy as np
import requests
import folium
from geopy.geocoders import Nominatim # Nominatim converts an address into
latitude and longitude values.

```

In [4]:

```

#Getting Location's Coordinates of Hyderabad City.....

address = 'Chandigarh'
geolocator = Nominatim(user_agent='Chandigarh_explorer')
Chandigarh_location = geolocator.geocode(address)
Chandigarh_latitude = Chandigarh_location.latitude
Chandigarh_longitude = Chandigarh_location.longitude

```

```
print('latitude',Chandigarh_latitude,' longitude=',Chandigarh_longitude)
latitude 30.7194022 longitude= 76.7646552
```

In [5]:

```
def get_latitude(x):
    if hasattr(x,'latitude') and (x.latitude is not None):
        return x.latitude

def get_longitude(x):
    if hasattr(x,'longitude') and (x.longitude is not None):
        return x.longitude
```

In [6]:

```
#Getting Hotel location where user stay...

# I am considering that for this project, user stay in Hotel Mountview in
Chandigarh.
Hotel_address = 'Hotel Mountview,Chandigarh'
geolocator = Nominatim(user_agent='Chandigarh_explorer')
H_location = geolocator.geocode(Hotel_address)
H_lat = H_location.latitude
H_long = H_location.longitude
print('latitude=',H_lat,' longitude=',H_long)
latitude= 30.7539339 longitude= 76.78883869195052
```

In [7]:

```
LIMIT = 100 # no. of restaurants.
radius = 6000 # defing range 6 KM, I am considering range+1.
CLIENT_ID = 'Your CLIENT_ID' # my Foursquare ID
CLIENT_SECRET = 'Your CLIENT_SECRET' # my Foursquare Secret
VERSION = '20180605' # Foursquare API version
url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_se
cret={}&v={}&ll={},{}&radius={}&limit={}'.format(
    CLIENT_ID,
    CLIENT_SECRET,
    VERSION,
    H_lat,
    H_long,
    radius,
    LIMIT)
```

```
url
```

Out[7]:

```
'https://api.foursquare.com/v2/venues/explore?&client_id=WJWCGTFDJMPEXOQPNL
GFRWPPI32BUL4L1FHCF2RZLG5HK0RC&client_secret=3X4HWJ5PDKFD031TM2GZINOU3WLURZ
V3VODKN3QRICLWJK2X&v=20180605&ll=30.7539339,76.78883869195052&radius=6000&l
imit=100'
```

In [8]:

```
# API calling to get data in Json format
import requests
from pandas.io.json import json_normalize
!conda install -c conda-forge folium=0.5.0 --yes
import folium # plotting library

Collecting package metadata (current_repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
Collecting package metadata (repodata.json): done
Solving environment: done
```

```
==> WARNING: A newer version of conda exists. <==
  current version: 4.8.3
  latest version: 4.8.4
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

Package Plan

environment location: /home/jupyterlab/conda/envs/python

added / updated specs:

- folium=0.5.0

The following packages will be downloaded:

package	build		
altair-4.1.0	py_1	614 KB	conda-for
attrs-20.2.0	pyh9f0ad1d_0	41 KB	conda-for
branca-0.4.1	py_0	26 KB	conda-for
brotlipy-0.7.0	py36h8c4c3a4_1000	346 KB	conda-for
chardet-3.0.4	py36h9f0ad1d_1006	188 KB	conda-for
cryptography-3.1	py36h45558ae_0	615 KB	conda-for

folium-0.5.0		py_0	45 KB	conda-for
ge				
openssl-1.1.1g		h516909a_1	2.1 MB	conda-for
ge				
pandas-1.1.1		py36h831f99a_0	10.5 MB	conda-for
ge				
pysocks-1.7.1		py36h9f0ad1d_1	27 KB	conda-for
ge				
toolz-0.10.0		py_0	46 KB	conda-for
ge				
vincent-0.4.4		py_1	28 KB	conda-for
ge				

Total:			14.6 MB	

The following NEW packages will be INSTALLED:

altair	conda-forge/noarch::altair-4.1.0-py_1
attrs	conda-forge/noarch::attrs-20.2.0-pyh9f0ad1d_0
branca	conda-forge/noarch::branca-0.4.1-py_0
brotlipy	conda-forge/linux-64::brotlipy-0.7.0-py36h8c4c3a4_1000
chardet	conda-forge/linux-64::chardet-3.0.4-py36h9f0ad1d_1006
cryptography	conda-forge/linux-64::cryptography-3.1-py36h45558ae_0
entrypoints	conda-forge/linux-64::entrypoints-0.3-py36h9f0ad1d_100
1	
folium	conda-forge/noarch::folium-0.5.0-py_0
idna	conda-forge/noarch::idna-2.10-pyh9f0ad1d_0
importlib_metadata	conda-forge/noarch::importlib_metadata-1.7.0-0
jinja2	conda-forge/noarch::jinja2-2.11.2-pyh9f0ad1d_0
jsonschema	conda-forge/linux-64::jsonschema-3.2.0-py36h9f0ad1d_1
markupsafe	conda-forge/linux-64::markupsafe-1.1.1-py36h8c4c3a4_1
pandas	conda-forge/linux-64::pandas-1.1.1-py36h831f99a_0
pyopenssl	conda-forge/noarch::pyopenssl-19.1.0-py_1
pyrsistent	conda-forge/linux-64::pyrsistent-0.16.0-py36h8c4c3a4_0
pysocks	conda-forge/linux-64::pysocks-1.7.1-py36h9f0ad1d_1
pytz	conda-forge/noarch::pytz-2020.1-pyh9f0ad1d_0
requests	conda-forge/noarch::requests-2.24.0-pyh9f0ad1d_0
toolz	conda-forge/noarch::toolz-0.10.0-py_0
urllib3	conda-forge/noarch::urllib3-1.25.10-py_0
vincent	conda-forge/noarch::vincent-0.4.4-py_1

The following packages will be UPDATED:

openssl	1.1.1g-h516909a_0 --> 1.1.1g-h516
909a_1	

Downloading and Extracting Packages

```
pysocks-1.7.1      | 27 KB      | ##### |
100%
toolz-0.10.0       | 46 KB      | ##### |
100%
chardet-3.0.4      | 188 KB     | ##### |
100%
pandas-1.1.1       | 10.5 MB    | ##### |
100%
folium-0.5.0       | 45 KB      | ##### |
100%
cryptography-3.1   | 615 KB     | ##### |
100%
branca-0.4.1       | 26 KB      | ##### |
100%
brotlipy-0.7.0     | 346 KB     | ##### |
100%
openssl-1.1.1g     | 2.1 MB     | ##### |
100%
altair-4.1.0       | 614 KB     | ##### |
100%
attrs-20.2.0       | 41 KB      | ##### |
100%
vincent-0.4.4      | 28 KB      | ##### |
100%
```

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

In [9]:

```
result = requests.get(url).json()
result
```

Out [9]:

```
{'meta': {'code': 200, 'requestId': '5f562a1714f54069cbd8a18e'},
 'response': {'suggestedFilters': {'header': 'Tap to show:',
   'filters': [{'name': 'Open now', 'key': 'openNow'}]},
 'headerLocation': 'Chandigarh',
 'headerFullLocation': 'Chandigarh',
 'headerLocationGranularity': 'city',
 'totalResults': 119,
 'suggestedBounds': {'ne': {'lat': 30.807933954000053,
   'lng': 76.8515580653433},
 'sw': {'lat': 30.699933845999947, 'lng': 76.72611931855774}},
 'groups': [{'type': 'Recommended Places',
   'name': 'recommended',
   'items': [{'reasons': {'count': 0,
     'items': [{'summary': 'This spot is popular',
```

```
    'type': 'general',
    'reasonName': 'globalInteractionReason']]],
'venuue': {'id': '4ba37b0ff964a520b94038e3',
'name': 'Backpackers Cafe',
'location': {'address': 'Sector 9',
'lat': 30.747722035937098,
'lng': 76.79326984747755,
'labeledLatLngs': [{'label': 'display',
'lat': 30.747722035937098,
'lng': 76.79326984747755}]},
'distance': 811,
'postalCode': 'India',
'cc': 'IN',
'neighborhood': 'Sector 9',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Sector 9',
'Chandigarh India',
'Chandigarh',
'India']},
'categories': [{'id': '4bf58dd8d48988d1c5941735',
'name': 'Sandwich Place',
'pluralName': 'Sandwich Places',
'shortName': 'Sandwiches',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/de
li_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []},
'referralId': 'e-0-4ba37b0ff964a520b94038e3-0',
'reasons': {'count': 0,
'items': [{'summary': 'This spot is popular',
'type': 'general',
'reasonName': 'globalInteractionReason']]],
'venuue': {'id': '5329ae5c498eff20a149e328',
'name': 'Rustic Door',
'location': {'address': 'Sector 10 Chandigarh',
'crossStreet': 'Opposite Hotel Mount View',
'lat': 30.754214929727702,
'lng': 76.7877191222044,
'labeledLatLngs': [{'label': 'display',
'lat': 30.754214929727702,
'lng': 76.7877191222044}]},
'distance': 111,
'cc': 'IN',
'city': 'Chandigarh',
```

```
    'state': 'Punjab',
    'country': 'India',
    'formattedAddress': ['Sector 10 Chandigarh (Opposite Hotel Mount Vi
ew)',
    'Chandigarh',
    'Punjab',
    'India']],
    'categories': [{ 'id': '4bf58dd8d48988d16d941735',
    'name': 'Café',
    'pluralName': 'Cafés',
    'shortName': 'Café',
    'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/ca
fe_',
    'suffix': '.png'},
    'primary': True}],
    'photos': { 'count': 0, 'groups': []},
    'referralId': 'e-0-5329ae5c498eff20a149e328-1'},
    {'reasons': { 'count': 0,
    'items': [{ 'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason'}]},
    'venue': { 'id': '4c09187a7e3fc928b451f182',
    'name': 'The Willow Cafe',
    'location': { 'address': 'SCO 1',
    'crossStreet': 'Sector 10',
    'lat': 30.75478186973255,
    'lng': 76.78744890994679,
    'labeledLatLngs': [{ 'label': 'display',
    'lat': 30.75478186973255,
    'lng': 76.78744890994679}],
    'distance': 163,
    'cc': 'IN',
    'neighborhood': 'Sector 10',
    'city': 'Chandigarh',
    'state': 'Chandigarh',
    'country': 'India',
    'formattedAddress': ['SCO 1 (Sector 10)',
    'Chandigarh',
    'Chandigarh',
    'India']],
    'categories': [{ 'id': '4bf58dd8d48988d10f941735',
    'name': 'Indian Restaurant',
    'pluralName': 'Indian Restaurants',
    'shortName': 'Indian',
    'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/in
dian_',
    'suffix': '.png'},
```



```
'distance': 184,
'cc': 'IN',
'neighborhood': 'Sector 10',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Coal depot',
'Chandigarh',
'Chandigarh',
'India']],
'categories': [{'id': '4bf58dd8d48988d150941735',
'name': 'Spanish Restaurant',
'pluralName': 'Spanish Restaurants',
'shortName': 'Spanish',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/sp
anish_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []},
'referralId': 'e-0-530caf2f498ec8b7dd32bd63-4'},
'reasons': {'count': 0,
'items': [{'summary': 'This spot is popular',
'type': 'general',
'reasonName': 'globalInteractionReason'}]},
'venue': {'id': '4cb41c4f562d224bbae53188',
'name': 'Stu c, Panjab University',
'location': {'address': 'Panjab University',
'crossStreet': 'Sector 14',
'lat': 30.762265755706792,
'lng': 76.76987522382109,
'labeledLatLngs': [{'label': 'display',
'lat': 30.762265755706792,
'lng': 76.76987522382109}]},
'distance': 2037,
'cc': 'IN',
'neighborhood': 'Panjab University',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Panjab University (Sector 14)',
'Chandigarh',
'Chandigarh',
'India']],
'categories': [{'id': '4bf58dd8d48988d120951735',
'name': 'Food Court',
'pluralName': 'Food Courts',
'shortName': 'Food Court',
```

```

      'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/shops/food_foodcourt_',
        'suffix': '.png'},
        'primary': True}},
      'photos': {'count': 0, 'groups': []}},
      'referralId': 'e-0-4cb41c4f562d224bbae53188-5'},
    {'reasons': {'count': 0,
      'items': [{'summary': 'This spot is popular',
        'type': 'general',
        'reasonName': 'globalInteractionReason'}]},
      'venue': {'id': '4de8d6edc65b72347a19313c',
        'name': 'Body Zone',
        'location': {'lat': 30.741197116938704,
          'lng': 76.79112608428154,
          'labeledLatLngs': [{'label': 'display',
            'lat': 30.741197116938704,
            'lng': 76.79112608428154}]},
          'distance': 1434,
          'cc': 'IN',
          'city': 'Chandigarh',
          'state': 'Chandigarh',
          'country': 'India',
          'formattedAddress': ['Chandigarh', 'Chandigarh', 'India']},
          'categories': [{'id': '4bf58dd8d48988d176941735',
            'name': 'Gym',
            'pluralName': 'Gyms',
            'shortName': 'Gym',
            'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/gym_',
              'suffix': '.png'},
              'primary': True}},
            'photos': {'count': 0, 'groups': []}},
            'referralId': 'e-0-4de8d6edc65b72347a19313c-6'},
          {'reasons': {'count': 0,
            'items': [{'summary': 'This spot is popular',
              'type': 'general',
              'reasonName': 'globalInteractionReason'}]},
              'venue': {'id': '4d822ef6baf9a35d1fc8a421',
                'name': 'Girl In The Café',
                'location': {'address': '117-119, 2nd Flr.',
                  'crossStreet': 'Sector 17',
                  'lat': 30.73784483124522,
                  'lng': 76.78449765754277,
                  'labeledLatLngs': [{'label': 'display',
                    'lat': 30.73784483124522,
                    'lng': 76.78449765754277}]},
                    'distance': 1838,

```

```
'postalCode': '160017',
'cc': 'IN',
'neighborhood': 'asd',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['117-119, 2nd Flr. (Sector 17)',
'Chandigarh 160017',
'Chandigarh',
'India']],
'categories': [{'id': '4bf58dd8d48988d16d941735',
'name': 'Café',
'pluralName': 'Cafés',
'shortName': 'Café',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/ca
fe_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []},
'referralId': 'e-0-4d822ef6baf9a35d1fc8a421-7',
'reasons': {'count': 0,
'items': [{'summary': 'This spot is popular',
'type': 'general',
'reasonName': 'globalInteractionReason'}]},
'venue': {'id': '4c0ba827009a0f47975cebbf',
'name': 'Rose Garden',
'location': {'address': 'Sector 16',
'lat': 30.746003615576836,
'lng': 76.78164482116699,
'labeledLatLngs': [{'label': 'display',
'lat': 30.746003615576836,
'lng': 76.78164482116699}]},
'distance': 1119,
'cc': 'IN',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Sector 16',
'Chandigarh',
'Chandigarh',
'India']],
'categories': [{'id': '4bf58dd8d48988d15a941735',
'name': 'Garden',
'pluralName': 'Gardens',
'shortName': 'Garden',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/parks_o
utdoors/garden_',
```

```
'suffix': '.png'},
    'primary': True]],
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4c0ba827009a0f47975cebbf-8'},
{'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
        'type': 'general',
        'reasonName': 'globalInteractionReason'}]},
'venue': {'id': '4beac336a9900f47bce01640',
    'name': 'Nik Bakers',
    'location': {'address': 'Booth No. 31- 34, Sector 9 D',
        'lat': 30.74781519967048,
        'lng': 76.79325514155504,
        'labeledLatLngs': [{'label': 'display',
            'lat': 30.74781519967048,
            'lng': 76.79325514155504}]},
'distance': 801,
'cc': 'IN',
'neighborhood': 'Sector 9D',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Booth No. 31- 34, Sector 9 D',
    'Chandigarh',
    'Chandigarh',
    'India']},
'categories': [{'id': '4bf58dd8d48988d16a941735',
    'name': 'Bakery',
    'pluralName': 'Bakeries',
    'shortName': 'Bakery',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/ba
kery_',
        'suffix': '.png'},
    'primary': True]],
    'photos': {'count': 0, 'groups': []}},
    'referralId': 'e-0-4beac336a9900f47bce01640-9'},
{'reasons': {'count': 0,
    'items': [{'summary': 'This spot is popular',
        'type': 'general',
        'reasonName': 'globalInteractionReason'}]},
'venue': {'id': '4bd1b65d046076b07e477271',
    'name': 'Ghazal',
    'location': {'address': 'Sector 17',
        'lat': 30.73905473075671,
        'lng': 76.78335833920829,
        'labeledLatLngs': [{'label': 'display',
            'lat': 30.73905473075671,
```

```
    'lng': 76.78335833920829]],
  'distance': 1737,
  'cc': 'IN',
  'neighborhood': 'Sector 17',
  'city': 'Chandigarh',
  'state': 'Chandigarh',
  'country': 'India',
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    'shortName': 'Field',
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'India']}]}
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```

'venue': {'id': '4d2055cc756e8cfadf636b54',
'name': 'Sector 22',
'location': {'lat': 30.73119963987053,
'lng': 76.7710752122565,
'labeledLatLngs': [{'label': 'display',
'lat': 30.73119963987053,
'lng': 76.7710752122565}]},
'distance': 3048,
'postalCode': '160022',
'cc': 'IN',
'city': 'Chandigarh',
'state': 'Chandigarh',
'country': 'India',
'formattedAddress': ['Chandigarh 160022', 'Chandigarh', 'India']},
'categories': [{'id': '4f2a25ac4b909258e854f55f',
'name': 'Neighborhood',
'pluralName': 'Neighborhoods',
'shortName': 'Neighborhood',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/parks_o
utdoors/neighborhood_',
'suffix': '.png'},
'primary': True}],
'photos': {'count': 0, 'groups': []}},
'referralId': 'e-0-4d2055cc756e8cfadf636b54-99'}}]]]]}

```

In [10]:

```

# function that extracts the category of the venue
def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

    if len(categories_list) == 0:
        return None
    else:
        return categories_list[0]['name']

```

In [24]:

```

pip install --upgrade pandas

```

```

Requirement already up-to-date: pandas in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (1.1.1)
Requirement already satisfied, skipping upgrade: numpy>=1.15.4 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from pandas) (1.19.1)
Requirement already satisfied, skipping upgrade: python-dateutil>=2.7.3 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from pandas) (2.8.1)

```

Requirement already satisfied, skipping upgrade: pytz>=2017.2 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from pandas) (2020.1)
Requirement already satisfied, skipping upgrade: six>=1.5 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from python-dateutil>=2.7.3->pandas) (1.15.0)

Note: you may need to restart the kernel to use updated packages.

In [26]:

```
import pandas as pd
import numpy as np
```

In [38]:

```
from pandas.io.json import json_normalize # tranform JSON file into a pandas dataframe
```

```
restaurants = result['response']['groups'][0]['items']
```

```
nearby_restaurants = json_normalize(restaurants) # flatten JSON
```

```
# filter columns
```

```
filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat',  
                    'venue.location.lng']
```

```
nearby_restaurants = nearby_restaurants.loc[:, filtered_columns]
```

```
# filter the category for each row
```

```
nearby_restaurants['venue.categories'] = nearby_restaurants.apply(get_category_type, axis=1)
```

```
# clean columns
```

```
nearby_restaurants.columns = [col.split(".")[0] for col in nearby_restaurants.columns]
```

```
nearby_restaurants.head()
```

```
-----  
AttributeError                                Traceback (most recent call last)
```

```
~/conda/envs/python/lib/python3.6/site-packages/IPython/core/formatters.py
```

```
in __call__(self, obj)
```

```
    343         method = get_real_method(obj, self.print_method)
```

```
    344         if method is not None:
```

```
--> 345             return method()
```

```
    346         return None
```

```
    347     else:
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in _repr_html_(self)
```

```
    732         self.info(buf=buf)
```

```
    733         return buf.getvalue()
```

```
--> 734
```

```
    735         max_rows = get_option("display.max_rows")
```

```

736         min_rows = get_option("display.min_rows")

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/format.py
in to_html(self, buf, encoding, classes, notebook, border)
    980             Whether the generated HTML is for IPython Notebook.
    981             border : int
--> 982             A ``border=border`` attribute is included in the openin
g
    983             ``<table>`` tag. Default ``pd.options.display.html.bord
er``.
    984             """

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/html.py i
n __init__(self, formatter, classes, border)
    57         self.col_space = {
    58             column: f"{value}px" if isinstance(value, int) else val
ue
--> 59             for column, value in self.fmt.col_space.items()
    60         }
    61

```

AttributeError: 'NoneType' object has no attribute 'items'

Out[38]:

	name \			
0	Backpackers Cafe			
1	Rustic Door			
2	The Willow Cafe			
3	Rock Garden			
4	Casa Bella Vista Pizzeria			
..	...			
95	Park View Hotel			
96	Domino's Pizza			
97	Tehal Singh's Dhabha			
98	cafe coffee day			
99	Sector 22			

	categories	lat	lng
0	[{'id': '4bf58dd8d48988d1c5941735', 'name': 'S...}	30.747722	76.793270
1	[{'id': '4bf58dd8d48988d16d941735', 'name': 'C...}	30.754215	76.787719
2	[{'id': '4bf58dd8d48988d10f941735', 'name': 'I...}	30.754782	76.787449
3	[{'id': '4bf58dd8d48988d166941735', 'name': 'S...}	30.752442	76.804378
4	[{'id': '4bf58dd8d48988d150941735', 'name': 'S...}	30.754788	76.787184
..
95	[{'id': '4bf58dd8d48988d1fa931735', 'name': 'H...}	30.745974	76.767627
96	[{'id': '4bf58dd8d48988d1ca941735', 'name': 'P...}	30.724709	76.768775
97	[{'id': '4bf58dd8d48988d10f941735', 'name': 'I...}	30.731093	76.775438
98	[{'id': '4bf58dd8d48988d16d941735', 'name': 'C...}	30.719957	76.790908

```
99  [{ 'id': '4f2a25ac4b909258e854f55f', 'name': 'N... 30.731200 76.771075
```

In [39]:

```
zomato_key = {'user-key': 'enter your key'} # zomato api key
```

```
print('Processing restaurant no: ')
```

```
print(count, end=" ")
```

```
result = requests.get(url, headers = zomato key)
```

```
try:
```

```
rating.append(result['restaurants'][0]['restaurant']['user_rating']['aggregate rating'])
```

```
rating.append('NA')
```

```
rating.append('NA')
```

```
print('\n restaurants ratings are : ')
```

Processing restaurant no:

29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53

79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

[!NIA ! !NIA ! !NIA ! !NIA ! !

In [40]:

```
nearby_restaurants['zomato rating'] = rating
```

```

-----
AttributeError                                Traceback (most recent call last)
~/conda/envs/python/lib/python3.6/site-packages/IPython/core/formatters.py
in __call__(self, obj)
    343             method = get_real_method(obj, self.print_method)
    344             if method is not None:
--> 345                 return method()
    346             return None
    347         else:

~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in _repr_html_(self)
    732             self.info(buf=buf)
    733             return buf.getvalue()
--> 734
    735         max_rows = get_option("display.max_rows")
    736         min_rows = get_option("display.min_rows")

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/format.py
in to_html(self, buf, encoding, classes, notebook, border)
    980             Whether the generated HTML is for IPython Notebook.
    981             border : int
--> 982             A ``border=border`` attribute is included in the opening
g
    983             ``<table>`` tag. Default ``pd.options.display.html.border``.
    984             """

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/html.py in
__init__(self, formatter, classes, border)
    57         self.col_space = {
    58             column: f"{value}px" if isinstance(value, int) else val
ue
--> 59         for column, value in self.fmt.col_space.items()
    60     }
    61

```

AttributeError: 'NoneType' object has no attribute 'items'

Out[40]:

```

          name \
0      Backpackers Cafe
1      Rustic Door
2      The Willow Cafe
3      Rock Garden
4 Casa Bella Vista Pizzeria

```

		categories	lat	lng
\				
0	[{'id': '4bf58dd8d48988d1c5941735', 'name': 'S...		30.747722	76.793270
1	[{'id': '4bf58dd8d48988d16d941735', 'name': 'C...		30.754215	76.787719
2	[{'id': '4bf58dd8d48988d10f941735', 'name': 'I...		30.754782	76.787449
3	[{'id': '4bf58dd8d48988d166941735', 'name': 'S...		30.752442	76.804378
4	[{'id': '4bf58dd8d48988d150941735', 'name': 'S...		30.754788	76.787184

	zomato rating
0	NA
1	NA
2	NA
3	NA
4	NA

In [75]:

```
# checking restaurants who have no ratings
```

```
nearby_restaurants[nearby_restaurants['zomato rating']=='NA'].index
```

```
-----
KeyError                                Traceback (most recent call last)
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py
in get_loc(self, key, method, tolerance)
    2645         Int64Index([3, 4], dtype='int64')
-> 2646         """
    2647         self._validate_sort_keyword(sort)
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()
```

```
KeyError: 'zomato rating'
```

During handling of the above exception, another exception occurred:

```
KeyError                                Traceback (most recent call last)
<ipython-input-75-3c111850bb61> in <module>
      1 # checking restaurants who have no ratings
      2
----> 3 nearby_restaurants[nearby_restaurants['zomato rating']=='NA'].index
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in __getitem__(self, key)
    2798
    2799         else:
-> 2800             new_values = self.values.T
    2801             if copy:
    2802                 new_values = new_values.copy()
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py
in get_loc(self, key, method, tolerance)
    2646         """
    2647         self._validate_sort_keyword(sort)
-> 2648         self._assert_can_do_setop(other)
    2649         other = ensure_index(other)
    2650
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
KeyError: 'zomato rating'
```

In [76]:

```
# dropping the restaurants from list
```

```
nearby_restaurants.drop([22,80],axis=0,inplace=True)
nearby_restaurants.head()
```

```
-----
AttributeError                                Traceback (most recent call last)
```

```
~/conda/envs/python/lib/python3.6/site-packages/IPython/core/formatters.py
in __call__(self, obj)
    343         method = get_real_method(obj, self.print_method)
    344         if method is not None:
--> 345             return method()
    346         return None
    347     else:
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in _repr_html_(self)
    732         self.info(buf=buf)
    733         return buf.getvalue()
--> 734
```



```

735         max_rows = get_option("display.max_rows")
736         min_rows = get_option("display.min_rows")

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/format.py
in to_html(self, buf, encoding, classes, notebook, border)
    980             Whether the generated HTML is for IPython Notebook.
    981         border : int
--> 982             A ``border=border`` attribute is included in the openin
g
    983             ``<table>`` tag. Default ``pd.options.display.html.bord
er``.
    984         """

~/conda/envs/python/lib/python3.6/site-packages/pandas/io/formats/html.py i
n __init__(self, formatter, classes, border)
    57         self.col_space = {
    58             column: f"{value}px" if isinstance(value, int) else val
ue
--> 59         for column, value in self.fmt.col_space.items()
    60     }
    61

```

AttributeError: 'NoneType' object has no attribute 'items'

Out[76]:

```

          venue.name \
0          Backpackers Cafe
1          Rustic Door
2          The Willow Cafe
3          Rock Garden
4  Casa Bella Vista Pizzeria

          venue.categories  venue.location.lat \
0  [{'id': '4bf58dd8d48988d1c5941735', 'name': 'S...      30.747722
1  [{'id': '4bf58dd8d48988d16d941735', 'name': 'C...      30.754215
2  [{'id': '4bf58dd8d48988d10f941735', 'name': 'I...      30.754782
3  [{'id': '4bf58dd8d48988d166941735', 'name': 'S...      30.752442
4  [{'id': '4bf58dd8d48988d150941735', 'name': 'S...      30.754788

          venue.location.lng
0          76.793270
1          76.787719
2          76.787449
3          76.804378
4          76.787184

```

In [77]:

```
# getting travel distance and travel time
```

```

from datetime import datetime
start_time = datetime.now(tz=None)

time=[] # time unit: minutes
distance=[] # distance unit: km

key = 'enter your key' # Bing Map Api Key.
count = 1 # counter.

print('Processing restaurant no: ')
for name,lat,lng in zip(nearby_restaurants['name'],nearby_restaurants['lat'],nearby_restaurants['lng']):
    url = 'https://dev.virtualearth.net/REST/v1/Routes/DistanceMatrix?origins={},{}&destinations={},{}&travelMode=driving&startTime={}&key={}'.format(
        H_lat,
        H_long,
        lat,
        lng,
        start_time,
        key)
    print(count,end=" ")
    result = requests.get(url).json()
    time.append(result['resourceSets'][0]['resources'][0]['results'][0]['travelDuration'])
    distance.append(result['resourceSets'][0]['resources'][0]['results'][0]['travelDistance'])
    count+=1
print('\n time list : ')
print(time)
print('\n distance list')
print(distance)
Processing restaurant no:
-----
KeyError                                Traceback (most recent call last)
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py
in get_loc(self, key, method, tolerance)
    2645         Int64Index([3, 4], dtype='int64')
-> 2646         """
    2647         self._validate_sort_keyword(sort)

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
KeyError: 'name'
```

During handling of the above exception, another exception occurred:

```
KeyError                                Traceback (most recent call last)
<ipython-input-77-a36469eb7a33> in <module>
```

```
11
12 print('Processing restaurant no: ')
--> 13 for name,lat,lng in zip(nearby_restaurants['name'],nearby_restaurants['lat'],nearby_restaurants['lng']):
14     url = 'https://dev.virtualearth.net/REST/v1/Routes/DistanceMatrix?origins={},{}&destinations={},{}&travelMode=driving&startTime={}&key={}'
    .format(
15
H_lat,
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in __getitem__(self, key)
```

```
2798
2799         else:
-> 2800             new_values = self.values.T
2801             if copy:
2802                 new_values = new_values.copy()
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py in get_loc(self, key, method, tolerance)
```

```
2646         """
2647         self._validate_sort_keyword(sort)
-> 2648         self._assert_can_do_setop(other)
2649         other = ensure_index(other)
2650
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()
```

```
KeyError: 'name'
```

In [78]:

```
# adding time, distance and serving biryani data to our dataframe
```

```
nearby_restaurants['travel time minutes'] = time
nearby_restaurants['travel distance km'] = distance
```

```
serving_biryani = [1,0,0,1,1,0,1,0,0,1,1,0,0,1,
                   1,0,0,1,1,0,1,0,1,0,0,0,1,1,
                   0,1,1,0,0,1,0,0,0,0,0,0,0,0,
                   0,1,0,1,0,0,0,0,0,0,0,0,0,1,
                   0,0,1,1,1,0,0,0,0,0,0,0,0,0,
                   1,0,0,0,0,1,1,0,0,0,0,0,0,1,
                   0,0,0,0,0,0,0,0,0,0,0,0,0,0] # manually generated list f
rom online searching -> 1: yes, 0: no
```

```
nearby_restaurants['serves biryani'] = serving_biryani
```

```
nearby_restaurants.head()
```

```
-----
ValueError                                Traceback (most recent call last)
<ipython-input-78-ce64a7ffa664> in <module>
```

```
    1 # adding time, distance and serving biryani data to our dataframe
    2
----> 3 nearby_restaurants['travel time minutes'] = time
      4 nearby_restaurants['travel distance km'] = distance
      5
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in __s
etitem__(self, key, value)
```

```
    2936             stacklevel=3,
    2937         )
-> 2938     elif len(key) != len(self.index):
    2939         raise ValueError(
    2940             f"Item wrong length {len(key)} instead of {len(self
.index)})."

```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in _se
t_item(self, key, value)
```

```
    2998         Returns
    2999         -----
-> 3000         scalar
    3001         """
```

```

3002         if takeable:

~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in _sa
nitize_column(self, key, value, broadcast)
    3634             callable, they are computed on the DataFrame and
    3635             assigned to the new columns. The callable must not
-> 3636             change input DataFrame (though pandas doesn't check it)
    .
    3637             If the values are not callable, (e.g. a Series, scalar,
or array),
    3638             they are simply assigned.

~/conda/envs/python/lib/python3.6/site-packages/pandas/core/internals/const
ruction.py in sanitize_index(data, index, copy)
    609 def _list_of_dict_to_arrays(
    610     data: List,
--> 611     columns: Union[Index, List],
    612     coerce_float: bool = False,
    613     dtype: Optional[DtypeObj] = None,

```

ValueError: Length of values does not match length of index

In [79]:

```
# getting those restaurants who serves biryani
```

```

biryani_points = nearby_restaurants[nearby_restaurants['serves biryani']==1
].reset_index(drop=True)
biryani_points.head()

```

```

-----
KeyError                                Traceback (most recent call last)
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py
in get_loc(self, key, method, tolerance)
    2645         Int64Index([3, 4], dtype='int64')
-> 2646         ""
    2647         self._validate_sort_keyword(sort)

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()

KeyError: 'serves biryani'

```

During handling of the above exception, another exception occurred:

```
KeyError                                Traceback (most recent call last)
<ipython-input-79-2c3d7de40ac9> in <module>
      1 # getting those restaurants who serves biryani
      2
----> 3 biryani_points = nearby_restaurants[nearby_restaurants['serves biry
ani']==1].reset_index(drop=True)
      4 biryani_points.head()
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/frame.py in __g
etitem__(self, key)
    2798
    2799         else:
-> 2800             new_values = self.values.T
    2801             if copy:
    2802                 new_values = new_values.copy()
```

```
~/conda/envs/python/lib/python3.6/site-packages/pandas/core/indexes/base.py
in get_loc(self, key, method, tolerance)
    2646         """
    2647         self._validate_sort_keyword(sort)
-> 2648         self._assert_can_do_setop(other)
    2649         other = ensure_index(other)
    2650
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/index.pyx in pandas._libs.index.IndexEngine.get_loc()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()
```

```
pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectH
ashTable.get_item()
```

```
KeyError: 'serves biryani'
```

In [80]:

```
biryani_points.shape
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-80-0bb781335125> in <module>
----> 1 biryani_points.shape
```

```
NameError: name 'biryani_points' is not defined
```

In []: