

Capstone Project: The Battle of Neighborhoods

MOVING TO ATLANTA, GEORGIA. ANALYSIS OF THE JOURNEY.

Data Description:

The following data was considered in the analysis:

1.- Cities and Counties Data:

I found the list of Cities and Counties from Wikipedia : [https://en.wikipedia.org/wiki/List_of_municipalities_in_Georgia_\(U.S._state\)](https://en.wikipedia.org/wiki/List_of_municipalities_in_Georgia_(U.S._state)) .I scrapped the data from the wiki, then cleaned and reduced to be applied creating choropleth map .

```
.0]: ▶ df1.head()
```

```
at[10]:
```

	City	County	Population	Land
0	Baxley	Appling	4400	8.38
1	Graham	Appling	291	1.74
2	Surrency	Appling	201	0.77
3	Pearson	Atkinson	2117	3.35
4	Willacoochee	Atkinson	1391	3.82

2.- Coordinates for Georgia Cities:

I created own table with Coordinates (Latitude and Longitude) using Google Maps. That info will be merged with data from Cities and Counties. [2]

```
: df2.head()
```

```
: [5]:
```

	City	Latitude	Longitude	Google URL
0	Baxley	31.7632088	-82.420583	https://www.google.com/maps/place/Baxley,+Geor...
1	Graham	31.8283134	-82.519823	https://www.google.com/maps/place/Graham,+Geor...
2	Surrency	31.7216402	-82.207543	https://www.google.com/maps/place/Surrency,+Ge...
3	Pearson	31.2975054	-82.871033	https://www.google.com/maps/place/Pearson,+Geo...
4	Willacoochee	31.3232856	-82.989815	https://www.google.com/maps/place/S+Atkinson+B...

3.- Foursquare API Data:

We use “**Foursquare API**” to extract data from the most common venues of each city in Atlanta. It will help us to provide the options in the comparative analysis. [3]

Define Foursquare Credentials and Version

```
: CLIENT_ID = 'GGC3K0AGI0AZI2UUM1NGQBNQPSNJ44RREQYWHTJ00FANW443' # your Foursquare ID
CLIENT_SECRET = '2TGU23WQQKEITSG1011ZFXSG0DENDH5QCORZCXB FUMOVRRLC' # your Foursquare Secret
VERSION = '20180605' # Foursquare API version

print('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET:' + CLIENT_SECRET)
```

Your credentails:

CLIENT_ID: GGC3K0AGI0AZI2UUM1NGQBNQPSNJ44RREQYWHTJ00FANW443

CLIENT_SECRET:2TGU23WQQKEITSG1011ZFXSG0DENDH5QCORZCXB FUMOVRRLC

4.-School, Colleges, University ranking and price of house rental Data

I create own tables for School, Colleges, University Ranking extracting from different websites It will help us to provide ranking analysis. [4]

```
: df3.head()
```

```
6]:
```

	School	City	Average Standard Score (2019)	Rank (2018)
0	Allatoona High School	Cobb County	80.5	33.0
1	Alpharetta High School	Fulton County	87.8	19.0
2	Arabia Mountain High School - Academy of Engin...	DeKalb County	64.0	87.0
3	Archer High School	Gwinnett County	72.7	46.0
4	Bleckley County High School	Bleckley County	71.1	50.0

```
: df4.head()
```

```
Out[7]:
```

	City	Average Rent October
0	Acworth, GA	\$1,121
1	Alpharetta, GA	\$1,488
2	Atlanta, GA	\$1,475
3	Augusta, GA	\$850
4	Austell, GA	\$1,027

```
df5.head()
```

```
Out[3]:
```

	University	City	University.1	Rank
0	Georgia Institute of Technology	Atlanta	Georgia Institute of Technology	1
1	Georgia State University	Atlanta	Georgia State University	2
2	University of Georgia	Athens	University of Georgia	3
3	Emory University	Atlanta	Emory University	4
4	Kennesaw State University	Kennesaw	Kennesaw State University	5

References:

- [1] Georgia — Wikipedia : [https://en.wikipedia.org/wiki/Georgia_\(U.S._state\)](https://en.wikipedia.org/wiki/Georgia_(U.S._state))
- [2] Google Map : <https://www.google.com/maps>
- [3] Forsquare API : <https://developer.foursquare.com/>
- [4] Schools, University, Rental Houses websites :
 - <https://www.schooldigger.com/go/GA/schoolrank.aspx?level=3#>
 - <https://www.rentcafe.com/blog/rental-market/local-rent-reports/georgia-rent-report-october-2019/>
 - <https://www.4icu.org/us/georgia/>