Title: Capstone Project - A recommendation system for coworking spaces in Tunisia (week 1)

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Motivation

Coworking spaces is a new concept in Tunisia, those places offre to any new start up the chance to meet other start ups in the same place so that they can comminucate with each others and echange experiences between each others when they need.

An other important factor is that those places try to provide start ups with all what they need (private desktops, meet up room , caffé , drinks and foods.

Research Question:

Can we provide a recommendation system to new start ups so that they can find the best coworking space for them based on the governorate in which they are ?

Dataset details:

- We will use Foursquare API to search for venues and make the call to the Foursquare database and in return, We will use K-means clustering to do classification for coworking spaces :
- 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&ll={},{}&v={}&query={}&radius={}&limit={}'.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, ***_query, radius, LIMIT)

Return result like this:

```
0       Jasmine Hall Coworking Space
1           Cogite Coworking Space
2              SDC Coworking Space
3               Creativia coworking
4                Creativa Coworking
5         Hive12 Coworking Space
6             Orga Coworking Space
Name: name, dtype: object
```

	categories	hasPerk	id	location.address	location.cc	location.city	location.country	location.crossStreet	location.d
0	[{'id': '4bf58dd8d48988d174941735', 'name': 'C...	False	5557005f498eb83989a94550	Immeuble Cercle des Bureaux, Étage 1, Bureau B...	TN	Centre Urbain Nord, Tunis	تونس	NaN	
1	[{'id': '4bf58dd8d48988d174941735', 'name': 'C...	False	51e80c16498ead24aa09da6f	1 Place Tahar Haddad, Les berges Du Lac	TN	تونس	تونس	Hotel Acropole	
2	[{'id': '4bf58dd8d48988d174941735', 'name': 'C...	False	55ae7265498e46e4bbc202d4	NaN	TN	NaN	تونس	NaN	
3	[{'id': '4bf58dd8d48988d124941735', 'name': 'O...	False	57e15b5f498e0ccbcf8430e7	b 9, étage 1, centre millenium	TN	La Marsa	تونس	RN9	
4	[{'id': '4bf58dd8d48988d124941735', 'name': 'O...	False	57e15af7498e21bfa0e5ba72	b9, étage 1, centre millenium	TN	La Marsa	تونس	RN9	
5	[{'id': '4bf58dd8d48988d174941735', 'name': 'C...	False	5a7b3257d807ee3ef81b3d4c	NaN	TN	سوسة	تونس	NaN	
6	[{'id': '4bf58dd8d48988d174941735', 'name': 'C...	False	5a01ec0867a9fe7ac8b039a7	NaN	TN	NaN	تونس	NaN	

References

Foursquare API for developers: https://developer.foursquare.com/