

# Stores (bakeries, cafeterias, etc.) in the center of Athens, Greece

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July 10, 2021

## 1.Introduction

Athens , the capital of the Greece , belongs to the greater area of Attika with a population approximate to 4 million . As the capital of Greece , Athens is the economic center of the country.

## 2.Problem

Cafes , Bakery Stores , Restaurants are famous locations not only for the Greeks but for the tourists too. It is very interesting to examine some aspects about how this type of stores interacting each other.

## 3.Getting the Data

The data for this project retrieved from the foursquare API , using the user ID and client server . Foursquare is a famous application where the users can submit their reviews about a restaurant , a coffee store , etc. . Also for more specific data like this project , we can use the coordinates of a location in order retrieve valuable and interesting data .

## 4.Analysis

During the first analysis using data from weatherdatasource.com , we were able to find how many cities-neighborhoods existing at the greater Attika area. Based on the findings , there 92 cities in Attika.

```
df_CityList['Latitude'] = list_lat
df_CityList['Longitude'] = list_long
df_CityList.head(10)
```

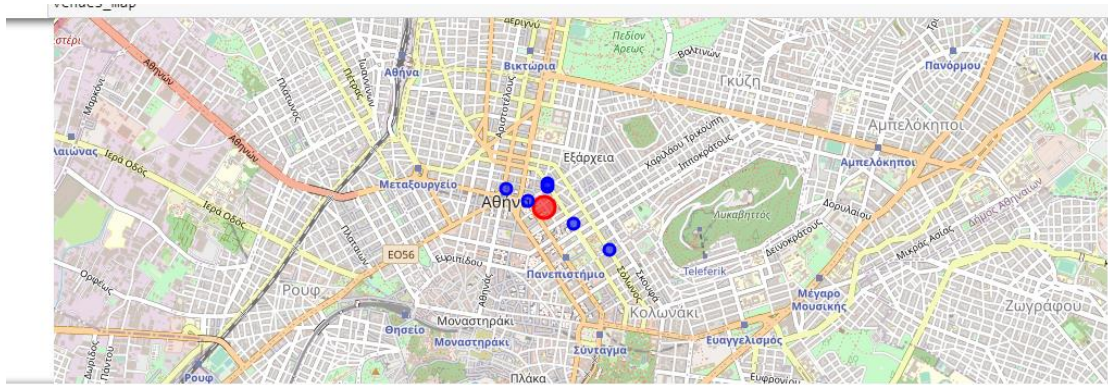
Acharnes, Attiki  
Aiantion, Attiki  
Algaleo, Attiki  
Aigina, Attiki  
Alimos, Attiki  
Amarousion, Attiki  
Ampelakia, Attiki  
Anavyssos, Attiki  
Ano Liosia, Attiki  
Anoxi, Attiki  
Aspropirgos, Attiki  
Athens, Attiki  
Ayia Marina, Attiki  
Ayia Paraskevi, Attiki  
Ayia Varvara, Attiki  
Ayios Stefanos, Attiki  
Ekali, Attiki  
Elefsina, Attiki  
Ellinikon, Attiki

```
In [5]: df_CityList.shape
Out[5]: (92, 4)
```

There are 92 cities or neighborhoods in the greater Attiki area

At first we chose the “Mr Bean Coffee” in the center of Athens , at the Emmanouil Mpenaki street , number 20. This coffee store is at one of the most “busy” streets of Athens. Then we searched for bakeries at a radius of 500m . Using the Foursquare API we found 5 bakeries in this area , soething that makes sense , based on the that everyone enjoys a pie or a donut with his/her coffee. As we can see from the table below , “Bakery & Coffee”, “Boutique Bakery” , “Polis Stagidis Bakery”, Athens Bakery” , “Apollonion” are the bakeries near “Mr Bean Coffee”.

	name	categories	address	lat	lng	labeledLatLngs	distance	postalCode	cc	city	state	country	formattedAddress
0	Bakery & Coffee (Bakery)	Bakery	3ης Σεπτεμβρίου 4	37.984591	23.728283	[[{"label": "display", "lat": 37.984591, "lng": ...	294	104 31	GR	Αθήνα	Αττική	Ελλάδα	[3ης Σεπτεμβρίου 4, 104 31 Αθήνα, Αττική]
1	Boutique Bakery	Bakery	NaN	37.984717	23.731561	[[{"label": "display", "lat": 37.984717, "lng": ...	144	106 77	GR	Αθήνα	Αττική	Ελλάδα	[106 77 Αθήνα, Αττική]
2	Polis Stagidis Bakery	Bakery	NaN	37.984904	23.731610	[[{"label": "display", "lat": 37.984904, "lng": ...	165	106 77	GR	Αθήνα	Αττική	Ελλάδα	[106 77 Αθήνα, Αττική]
3	Athens Bakery	Bakery	Σόλωνος 62	37.980828	23.736493	[[{"label": "display", "lat": 37.98082804214897...]	540	106 72	GR	Αθήνα	Αττική	Ελλάδα	[Σόλωνος 62 (Σινά), 106 72 Αθήνα, Αττική]
4	Απολλώνιον	Bakery	Πανεπιστημίου 62	37.983857	23.730037	[[{"label": "display", "lat": 37.98385679754047...]	120	106 77	GR	Αθήνα	Αττική	Ελλάδα	[Πανεπιστημίου 62 (Θεμιστοκλέους), 106 77 Αθίν...
5	Απολλώνιον	Bakery	Ακαδημίας 60	37.982450	23.733672	[[{"label": "display", "lat": 37.98245040175372...]	235	106 79	GR	Αθήνα	Αττική	Ελλάδα	[Ακαδημίας 60 (Μαυρομυιάλη), 106 79 Αθήνα, Ατ...



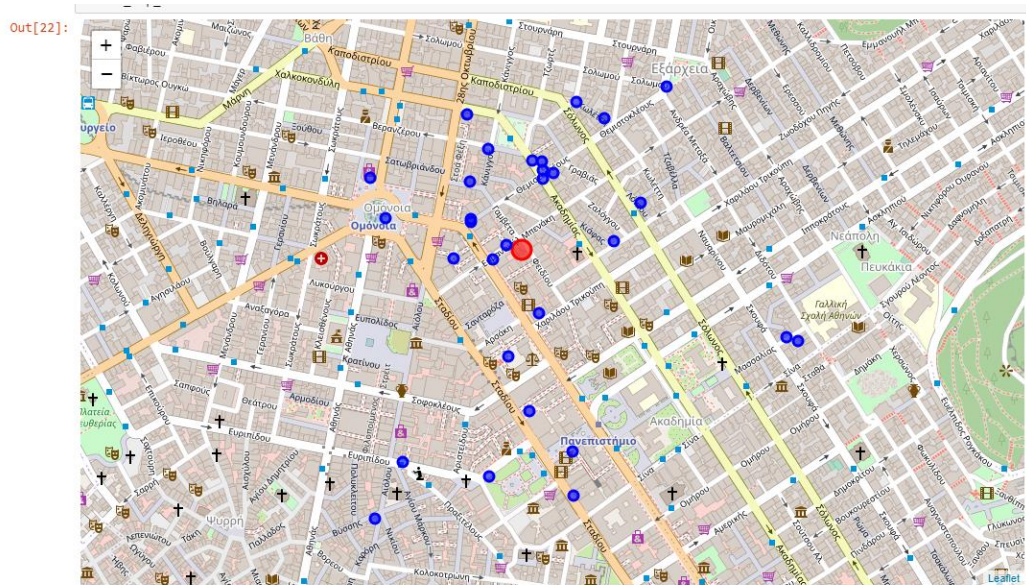
Map with the bakeries(blue dots) near Mr Bean Coffee" ( red dot)

Using the Foursquare API we found that one of the bakeries mentioned above , “Athens Bakery” , has a rating of 5.5 out of 10. Also we were able to read some comments about this store such as “The best cookies in town....just try if you passing by!!!and very good espresso , better of mikel!!” from the user “LeFki Dou”.

Using the Foursquare API again , we searched for Cafes near the “Mr Bean Coffee” . The results showed there are 30 Cafes at a radius of 500 meters , something that makes sense because we are at the center of the capital of Greece.

Out[14]:

	name	categories	address	lat	lng	labeledLatLngs	distance	cc	city	state	country	formattedAddress	postalCode
0	Sepia Art Cafe	Bar	Κωλέττη 25-27	37.985751	23.733158	[[{"label": "display", "lat": 37.98575145302804...	305	GR	Αθήνα	Αττική	Ελλάδα	[Κωλέττη 25-27, Αθήνα, Αττική]	NaN
1	Cafe Mozi	Corporate Coffee Shop	Σταδίου 40	37.980592	23.731479	[[{"label": "display", "lat": 37.98059179914281...	316	GR	Αθήνα	Αττική	Ελλάδα	[Σταδίου 40, 106 79 Αθήνα, Αττική]	106 79
2	Διπλό Cafe	Café	Θεμιστοκλέους 70	37.986297	23.734536	[[{"label": "display", "lat": 37.98629653662064...	426	GR	Αθήνα	Αττική	Ελλάδα	[Θεμιστοκλέους 70, 114 73 Αθήνα, Αττική]	114 73
3	Hondos Café	Café	Πλ. Ομονοίας	37.984701	23.727920	[[{"label": "display", "lat": 37.98470100400789...	328	GR	NaN	NaN	Ελλάδα	[Πλ. Ομονοίας]	NaN
4	Polis Art Cafe	Café	Πεσματζόγλου 5	37.981559	23.731002	[[{"label": "display", "lat": 37.98155940698001...	210	GR	Αθήνα	Αττική	Ελλάδα	[Πεσματζόγλου 5 (στο Αίθριο της Στοάς Βιβλίου)...	105 64
5	Del Viale Cafe	Café	Ακαδημίας 95α	37.984994	23.731540	[[{"label": "display", "lat": 37.98499428731634...	174	GR	Αθήνα	Αττική	Ελλάδα	[Ακαδημίας 95α, 106 77 Αθήνα, Αττική]	106 77



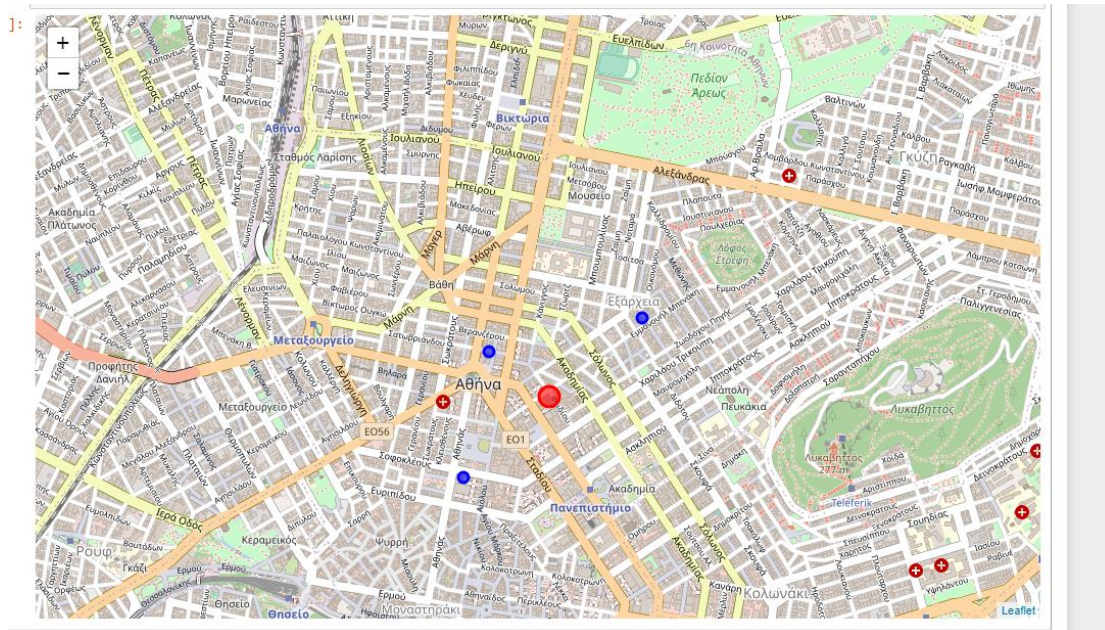
Map with the Cafes (blue dots) near Mr Bean Coffee" ( red dot)

Using the Foursquare API we found that one of the cafes mentioned above , “Polis Art Cafe” , has a rating of 5.8 out of 10. Also we were able to read some comments about this store such as *“I was there for a book presentation .Haven’t tasted the menu for ages so no opinion at present. Later they were hosting a tango night at their gorgeous huge open-air veranda and the atmosphere was great”* from the user “Maroula Mavrogiannopoulou”.

Last but not least , we searched for Greek restaurants using the Greek keyword “taverna” , and found 3 Greek restaurants (“taverna”) near Mr Bean Coffee (“Taverna Aris” , “Rozalia” , “Club Neon”.

	name	categories	address	lat	lng	labeledLatLngs	distance	postalCode	cc	city	state	country	formattedAddress	cross:
0	Taverna Aris (Ταβέρνα Αρις)	Seafood Restaurant	Σοφοκλέους 17-19	37.980773	23.727674	[{"label": "display", "lat": 37.980773, "lng": 23.727674}]	434	105 51	GR	Αθήνα	Αττική	Ελλάδα	[Σοφοκλέους 17-19, 105 51 Αθήνα, Αττική]	
1	Ροζαλία	Taverna	Βαλτετσίου 54	37.986067	23.735178	[{"label": "display", "lat": 37.986067, "lng": 23.735178}]	449	106 81	GR	Αθήνα	Αττική	Ελλάδα	[Βαλτετσίου 54 (Εμμανουήλ Μπενάκη), 106 81 Αθήνα, Αττική]	Εμμα Μπ
2	Club Νέον	Greek Restaurant	Σατωβριάνδου 7	37.984934	23.728742	[{"label": "display", "lat": 37.984934, "lng": 23.728742}]	279	104 31	GR	Αθήνα	Αττική	Ελλάδα	[Σατωβριάνδου 7, 104 31 Αθήνα, Αττική]	





Map with the Greek restaurants (blue dots) near Mr Bean Coffee" ( red dot)

"Rozalia" Greek restaurant , has a rating of 7.1 out of 10 , which is pretty high, and also has 68 tips according the Foursquare API . A user named "Young Greek Fella " commented :  
*"Typical traditional Greek food served for sooo many years! Trust the local and try as many 'tapas' possible by the tray they bring first. Then, mousaka is a must. Service is exceptional. Enjoy! "*

## Conclusion

Based on the analysis above , the center of Athens is the best place for someone to invest on restaurants coffees etc. We reached this conclusion with the help of the maps showing a lot pf this type of stores in the center of the city , including the comments from the customers.