PREDICTING SUITABLE HOUSES FOR TOURIST AND INDIVIDUALS TO STAY

INTRODUCTION

- London is the most beautiful city in the world, where individuals, families and couples want to stay

- However, individuals, couples and families find it hard to search for appropriate place or hotel to stay

- Business owners and apartment owners are interested as well

DATA ACQUISITION AND CLEANING

- **Foursquare Location Data**

I will be building an application that will interact with the Foursquare platform. The data used will correspond to the dataset I obtained from www.doogal.co.uk. Which displays the latitude, longitude, postcode etc.

- **2. Lewisham council postcodes from London**

This data contains a table of information about the city

Source: www.doogal.co.uk

ANALYSIS

- Table that shows : Postcode, latitude, longitude, e.t.c

	Postcode	In Use?	Latitude	Longitude	Easting	Northing	Grid Ref	Ward	Parish	Introduced	Terminated	
0	BR1 4BY	Yes	51.417289	-0.001741	539050	170591	TQ390705	Downham	Lewisham, unparished area	1980-01-01	NaN	
1	BR1 4DN	Yes	51.418996	-0.002156	539016	170780	TQ390707	Downham	Lewisham, unparished area	1980-01-01	NaN	
2	BR1 4EY	Yes	51.418477	0.005042	539518	170736	TQ395707	Downham	Lewisham, unparished area	1980-01-01	NaN	

SCRAPING DATA

- Diagram shows a display of the data I will only need i.e postcode, latitude, longitude and ward

	Postcode	Latitude	Longitude	Ward
0	BR1 4BY	51.417289	-0.001741	Downham
1	BR1 4DN	51.418996	-0.002156	Downham
2	BR1 4EY	51.418477	0.005042	Downham
3	BR1 4FD	51.421083	-0.002194	Downham
4	BR1 4JG	51.419403	-0.000728	Downham

CLUSTERING 5 DIFFERENT TYPES OF AREAS IN LEE GREEN

	Latitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue
699	51.453641	0	Pub	Café	Italian Restaurant	Gift Shop	Fish & Chips Shop	Grocery Store	Train Station
1064	51.454817	1	Platform	Café	Park	Convenience Store	Asian Restaurant	Chocolate Shop	Fried Chicken Joint
571	51.453635	2	Pub	Café	Italian Restaurant	Gift Shop	Fish & Chips Shop	Grocery Store	Train Station	Middle Eastern Restaurant
428	51.447794	3	Café	Fast Food Restaurant	Train Station	Hotel	Bus Stop	Italian Restaurant	Middle Eastern Restaurant
954	51.457085	4	Clothing Store	Fast Food Restaurant	Grocery Store	Café	Pub	Video Game Store	Flower Shop

CONCLUSION

- I have demonstrated everything in the code section, by clustering the area in responding to venue categories and filtering using Techniques like machine learning and others. Which saves people time from searching houses or hotels.

- Customers can now efficiently compare various areas and choose the one which is most suitable for them.

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