

The Battle of Neighborhoods

Applied Data Science Capstone Project

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Data Requirements:

- The data on available apartments are collected by scraping a local website with apartment listings (<https://www.your-move.co.uk>).
- To obtain latitude and longitude for each Neighborhood in Dataset we could geocoder to obtain Latitude and Longitude values for each postal code, but, upon a rudimentary web search, all necessary information was readily available on doogal.co.uk.

eg:

	Postal Code	City	Neighborhood	Price	Raw_Price	Latitude	Longitude
0	DA14	Sidcup	Frogna Avenue	£3,593 pcm	3593	51.426481	0.105038
1	SE10	London	Cutter Lane Chandlers Avenue	£2,990 pcm	2990	51.487122	0.003284
2	SE5	London	Lettsom Street	£2,150 pcm	2150	51.481796	-0.090377
3	BR1	Bromley	Plaistow Lane	£2,100 pcm	2100	51.401546	0.015415
4	SE9	London	Grove Place	£2,000 pcm	2000	51.450352	0.062336
5	SE14	London	Childeric Road	£1,900 pcm	1900	51.474867	-0.046933
6	E11	London	New Wanstead	£1,800 pcm	1800	51.564032	0.008813
7	SW15	London	Sherfield Gardens	£1,600 pcm	1600	51.464123	-0.222848
8	SE4	London	Adelaide Avenue	£1,450 pcm	1450	51.453268	-0.032498
9	E7	London	Disraeli Road	£1,400 pcm	1400	51.554412	0.019655
10	IG11	Barking	East Street	£1,400 pcm	1400	51.524785	0.078646
11	SE16	London	Jamaica Road	£1,395 pcm	1395	51.491797	-0.042421
12	SE26	London	Sydenham Road	£1,375 pcm	1375	51.429347	-0.044847
13	BR2	Bromley	Sandford Road	£1,350 pcm	1350	51.407775	-0.003321
14	SE21	London	Kingswood Estate	£1,350 pcm	1350	51.434204	-0.085226
15	SE15	London	Shurland Gardens Willowbrook Estate	£1,350 pcm	1350	51.476810	-0.068163
16	SE28	London	Anson Place	£1,300 pcm	1300	51.492037	0.087067
17	SE3	London	Coleraine Road	£1,300 pcm	1300	51.467676	0.018169
18	E6	London	High Street South	£1,250 pcm	1250	51.537580	0.040295
19	RM1	Romford	South Street	£1,200 pcm	1200	51.484461	0.084733
20	SE18	London	Elmley Street	£1,200 pcm	1200	51.577600	0.178261
21	E17	London	Hoe Street	£1,100 pcm	1100	51.585503	-0.018014
22	RM2	Romford	Kidman Close	£950 pcm	950	51.577913	0.190919

- The task of obtaining real world data of each and every venue located within each of the marked zones is made possible with the use of **Foursquare API** (www.Foursquare.com).
- Foursquare API can be called with our credentials, by feeding it the latitude and longitude data of each neighborhood which we had collected beforehand. The API will return information pertaining to all the venues in that particular location in JSON format.