**Capstone Project – Coffee Shop in Singapore**

**Description of Data**

The data used to solve this problem is geolocation data collected from FourSqure.com. Foursquare has one of the largest database of 105+ million places and used by over 125,000 developers. Foursquare API will provide many categories of the venue data, we are particularly interested in the coffee shop category in order to help us to solve the business problem. Adequate explanation and discussion of the data is the following. Data is a single dataframe, containing at least a location of the coffee shop. Explanation of the location data is a standard tuple (lat, lng), where lat stands for latitude and lng for longitude. Some other metadata such as name, postal code, and etc., are also collected.

**Example of the data:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Identifier | Name | Short Name | Address | Postal Code | Latitude | Longitude |
| 5d170ae66d54f8002357e288 | PPP Coffee | Coffee Shop | #02-19 Funan (107 North Bridge Road) | 179095 | 1.291628 | 103.849741 |
| 52fddabd498e48893061a262 | Starbucks Reserve Store (Starbucks Reserve) | Coffee Shop | #02-01/02/03 The Fullerton Waterboat House | 049215 | 1.287049 | 103.853600 |
| 527ba4d1498e06c5aa18aaca | RONIN | Café | 17 Hongkong St | 059660 | 1.287708 | 103.847177 |
| 55880c7b498eef1e8810c90d | Hoshino Coffee | Café | #B2-55 Capitol Piazza (13 Stamford Road) | 178905 | 1.292988 | 103.851441 |
| 5b348bd80d8a0f002cb3f0ed | The Stamford Brasserie | Café | 2 Stamford Rd | 178882 | 1.292836 | 103.853693 |

Data will be used as follow – by knowing the locations of the already existing coffee shops. It is possible to apply unsupervised learning technique like kernel density estimation (KDE) to determine the area of influence of the existing coffee shops.