**ICE CREAM SHOP**

**RECOMMENDER SYSTEM**

* **IBM Applied Data Science Capstone Project**

**DATA :**

To build a recommender system to find the best suitable place for an Ice Cream Shop, huge amount of data is required. The datasets are used to analyze the data, visualize the data, and the finally to get suitable solution to the problem.

To open a shop, following things are required –

1. Geographical coordinates of the area
2. The population of the neighbourhood
3. The type of people in the neighbourhood
4. Average income of the people nearby that area
5. The preference of people towards the type of food
6. Other service details such as juice, transport, taxi, etc.

The more popular the area, more chances to successfully provide service to people. The type of people ( students, or employee ) plays the important role to decide what type food should be provided.

The average income helps to decide the cost of the food items. The preference of the people should be taken in consideration. Other special services such as juice help to increase the business opportunities.

Thus, to get the solutions, a large amount of data is required.

**DATA COLLECTION:**

The names, postal codes and addresses of the places around the city can be obtained from various websites such as Wikipedia. The geographical coordinates data can be obtained from the various open source websites such as Wikipedia, Google Maps, Government websites, census report websites, etc.

The population of the area can be easily obtained by searching on the websites.

The average income data can be obtained from Wikipedia, or other sources.

Foursquare API can be used to get the information about the nearest locations. This data can be used to visualize, clustering the results.