BATTLE OF THE NEIGHBOURHOODS - I

Applied Data Science Capstone Project

**Introduction :**

New York City is home to nearly 8.4 million people as of 2020. This accounts for a tentative 40% of the entire New York state. It is divided into 5 prominent boroughs, each densely populated by a plethora of cultural and racial diversity, boasting one of the largest immigrant sanctuaries of the United States. New York serves as a popular tourist destination owing to its many landmark attractions such as the Times Square, Empire State Building and the majestic skyline. Consequently, it garners a large variety of people who undoubtedly would want great food to complement their experience. Subsequently, people would also like to set up their own kinds of restaurants to serve these tourists.

With a multicultural arrangement such as this, it is also expected that each individual has their own tastes, religions and beliefs. One of the most important sects of society is veganism or vegetarianism. With several motives among the likes of animal rights, dietary concerns and environmental concerns. **This project aims to provide vegans/vegetarians with a comprehensive list of the best restaurants in New York City that cater towards their lifestyle.**

**Data Description :**

The following contains a checklist of the data sources required for the project, adapted into the code by the standard python libraries.

* A list of all the boroughs and neighbourhoods along with their geographical coordinates. This will be parsed from the .json file from the source : <https://cocl.us/new_york_dataset>
* Foursquare API will be used to get a list of venues grouped by their characteristic identity i.e. the restaurants in each venue will be filtered out by the category of vegan/vegetarian
* A choropleth map will be visualised with the help of New York Geospace data from <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>