

Introduction/Business Problem

1.1. Description of the Problem

Tokyo was chosen as the hosts for the summer 2020 Olympic and Paralympic games. This is was set to take place in August 2010. However, due to the Coronavirus pandemic, the ceremony has been postponed to July 23rd , 2021. The aim of this project is to help visitors visualize the area in terms of restaurants that will fit their unique needs or requirements.

1.2. Discussion of the Background

The city has previously hosted the 1964 Summer Olympics as well as three G7 Summits (1979, 1983 and 1993). Tokyo is one of the most populous cities in the world and boasts much more restaurants than any other place in the world, offering unique Japanese, other Asian cuisine as well as international cuisine.

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It will be a bit of a challenge for visitors to find the closest restaurants to them as many websites can be confusing and may not always offer the best recommendations.

The question is; How can we leverage Foursquare API data and Machine Learning to help us find the best restaurants for each visitor in Tokyo?
In this project, Foursquare location data and clustering methods will be used to group the different suburbs (or districts) according to their restaurant information.

2. Description of the Data

For this project, we will need the following data:

i) A list of Special Wards (districts) in Tokyo

Data Source: https://en.wikipedia.org/wiki/Special_wards_of_Tokyo

Description: We will use the above website source to get the list of all the Special Wards of Tokyo and some other information about them.

ii) **Restaurants in each of the Special Wards (districts) in Tokyo**

Data Source: Foursquare API

Description: These will help us get all the restaurants in each neighborhood. This can also be filtered to show the most popular restaurants in each area.