**Exploring venues (eateries) in Singapore using Foursquare API**

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1. Introduction
   1. Background

With the rapid urbanization of the ‘Lion City’ came the additional demand for gastronomic options around the city-state. Over the 80s and the 90s, it was a prime example of a successfully built independent post-colonial state and attracted many migrants from all over South, East and Southeast Asia. This meant that a lot of the food options available in the city are heavily influenced by these countries. Over the turn of the century, the city has transformed itself, making up a GDP of over USD 300 billion, the 8th largest by capita (USD 65,000) out of any country in the world, thus increasing the amount of prospects for potential migrants and tourists likewise. This has resulted in a multitude of choices of eateries one can dine out at. In this analysis, we will be taking a look at some of the neighborhoods located in the Eastern End of the city-state i.e. neighborhoods located the closest to Changi Airport.

* 1. Target Audience

This analysis is potentially useful for people who are looking to move in the Eastern Region of Singapore and tourists who perhaps may be in Singapore for a few hours on transfer and may prefer to grab a quick bite.

1. Data

The information about the neighborhoods (scope) is taken from Wikipedia and scraped to create the data frame

<https://en.wikipedia.org/wiki/Planning_Areas_of_Singapore>

To obtain the individual latitudes and longitudes of the neighborhoods, the Geocoder API is used for plotting these on a map

The venue data and its categories (eateries) is obtained by the Foursquare API and this data is used for clustering