# Analyzing the Optimal Districts
# to Start a Restaurant Business in Paris

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# Introduction

Paris is the capital and the most populous city in France. The city is known to be a very touristic city welcoming millions of travelers per year from all over the world. It is home to many cultural and architectural landmarks. People from all different ethnicities and cultures come to Paris on holidays and it has not stopped being one of the most important traveling hubs in Europe. As for the food, it is widely known that Paris has a number of the most decorated chefs in the world serving all different cuisines from all over the globe. I have personally traveled to Paris and there was no doubt in my head that I had eaten the best food of my life there. I chose the location to see, if I were to open a restaurant business there, which district would be optimal. To do so, I have to study each district in Paris and check how the food business is doing there. The project could be extremely useful for investors who are looking to indulge in the restaurant business in the city of Paris. The objective is to collect appropriate data, process and analyze it, and finally give recommendations to where stakeholders should invest their money (which districts in Paris).

# Data

To deal with this king of project, we will have to gather data from different sources. We will first need to get the Paris district data. We will then need the respective latitude and longitude coordinates for each district. Finally, we will have to collect the data of the venues for each district in Paris.

- **District Data**

I have collected the Paris district data from the following Wikipedia list [https://en.wikipedia.org/wiki/Arrondissements_of_Paris#Arrondissements](https://en.wikipedia.org/wiki/Arrondissements_of_Paris#Arrondissements) . The data will then be converted into a pandas data frame either by using the read_html() method or manually inserting the 20 districts.

- **<u>Districts' Geographical Coordinates</u>**

We can find each districts' geographical location by using Python's GeoPy library. To get the latitude and longitude coordinates of each district, we will use the geocoder library. This data will also allow us to plot the map of Paris and marking the different districts using the Folium library.

- **<u>Districts' Venue Data</u>**

We will use the Foursquare API to extract the venue data for each Paris district. We will want to get the venue recommendations for each district and we will study the popular venues further.