# **Introduction/Business problem**

Amsterdam, the city author works, attracting millions of tourists every year because of its stunning architecture, rich culture, history and nightlife. While enjoying this beautiful city, eating a delicious meal ideally meets tourists' expectations. However, finding the right place to eat can be a challenge, though. Different tourists prefer different dishes due to different backgrounds, cultures and religions.

Thus, the goal of this exercise is to give a simple recommendation to tourists in Amsterdam: in which district (neighbourhood) of the city fit their needs in terms of food venues. For instance, Where to eat Mediterranean food, where to find Turkish food, where to get fast food?

# 

# 

# 

# **Data Requirements**

**List of neighbourhoods (districts) in Amsterdame**

Data source:

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

Description: We will Scrap Amsterdam districts (neighbourhoods) from Wikipedia and get the coordinates of these districts (neighbourhoods) using the geocoder class of Geopy client.

**Restaurants in each neighborhood of Amsterdam**

Data source: Foursquare APIs

Description : Foursquare is a US tech company from New York focusing on location data. Their technology and data powers apps such as Apple's Maps, Uber, Twitter . By using this API we will get all the venues in each neighborhood. We can filter these venues to get only restaurants.

This is a project that will make use of many data science skills, from web scraping (Wikipedia), working with API (Foursquare), data cleaning, data wrangling, to machine learning (K-means clustering) and map visualization (Folium).