# This Capstone project is the final assignment of the IBM data science professional certificate

### “In 2019, what is the most strategic location to open a fine dining Italian restaurant in Melbourne, Australia?[”](https://dataplatform.cloud.ibm.com/data/jupyter2/runtimeenv2/v1/wdpx/service/notebook/conda2x492b3ece0ee174a63b7f4e486a443cc00/dsxjpy/KjeMJm7zGrx1PGQ6cCNxfg:kEFlJ6K4_XkCf8jjj1Zr-VMMau1iZgfgQ7nl_4PNCkLOoyGXQMWLKX1uIa4SuP9Qp4CTRPg/container/notebooks/100810ad-7041-49b2-b60b-73a646358db9?project=92b3ece0-ee17-4a63-b7f4-e486a443cc00&api=v2&env=a#In-2019,-what-is-the-most-strategical-location-to-open-a-fine-dining-Italian-restaurant-in-Melbourne,-Australia?)

**Data and Analysis steps:**

*NB: The following steps are based on the findings of the research, narrowing down the best locations to open a fine dining restaurant in Melbourne*

1. **Part 1 : First, we want to create a database that encapsulates the main districts in the city centre of Melbourne with their latitude and longitude.**

**We will be using some Python code and rely on the following libraries:**

* **NumPy**
* **Panda**
* **Matplotlib**
* **Folium**

**Data will be extracted from a Wikipedia page for the districts names and corresponding postcodes:**

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

1. **Part 2 : Now let's analyse our data using Foursquare API in order to find the best location for our restaurant**

**2.a : Let's first look at the 10 districts and understand the popular venues within them**

**2.b : Let's now consider the 3 districts where customers are likely to go for italian food. It would be interesting to get a list of the italian restaurants in these districts**

**2.c : Now let's have a look at some ratings and comments about the restaurants in Carlton and CBD and see if we can get some insight from it**

**Conclusion:**

**We will develop a recommendation, based on the findings of our research**