

# CAPSTONE PROJECT

## INTRODUCTION

This is the capstone project for IBM Data Science Professional Certificate. In this project, I am taking a hypothetical scenario that there might not be enough Indian Restaurants in Toronto Area in Canada. Therefore, it might be a great opportunity for an entrepreneur who is based in Canada to open an Indian Restaurant.

Since, Indian food is popular among Asian communities, so this entrepreneur might think of opening its business in areas where the Asian community resides. With the purpose in mind, finding the location to open such a restaurant is one of the most important decisions for this entrepreneur and I am designing this project to help him find the most suitable location.

## BUSINESS PROBLEM

The objective of this capstone project is to find the most suitable location for the entrepreneur to open a new Indian Restaurant in Toronto, Canada. By using data science methods and tools along with machine learning algorithms such as clustering, this project aims to provide solutions to answer the business question: In Toronto, if an entrepreneur wants to open an Indian Restaurant, where should they consider opening it?

## DATA

To solve this problem, we will need below data:

- List of neighbourhoods in Toronto, Canada
- Latitude and Longitude of these neighbourhoods
- Venue data related to Indian restaurants. This will help us find neighbourhoods that are more suitable to open an Indian Restaurant.