**Identifying and Recommending Best Restaurants**

**Problem Description**

* A restaurant consolidator is looking to revamp the B2C portal using intelligent automation tech. This requires a different matrix to identify the star restaurants and generate recommendations. To make sure an effective model can be achieved, it is important to understand the behaviour of the data in hand.
* There are 2 datasets, data and Country-Code. Dataset data has 19 attributes and Country-Code has two attributes.
* You are required to determine certain matrices to identify the star restaurants and generate recommendations.

**Different Steps are performed which are given below**

1. **Importing, Understanding, and Inspecting Data :**
   * Perform preliminary data inspection and report the findings as the structure of the data, missing values, duplicates, etc.
   * Based on the findings from the previous questions, identify duplicates and remove them
2. **Performing EDA:**
   * Explore the geographical distribution of the restaurants and identify the cities with the maximum and minimum number of restaurants
   * Restaurant franchising is a thriving venture. So, it is very important to explore the franchise with most national presence
   * Find out the ratio between restaurants that allow table booking vs. those that do not allow table booking
   * Find out the percentage of restaurants providing online delivery
   * Calculate the difference in number of votes for the restaurants that deliver and the restaurants that do not deliver
   * What are the top 10 cuisines served across cities?
   * What is the maximum and minimum number of cuisines that a restaurant serves? Also, which is the most served cuisine across the restaurant for each city?
   * What is the distribution cost across the restaurants?
   * How ratings are distributed among the various factors?
   * Explain the factors in the data that may have an effect on ratings. For example, number of cuisines, cost, delivery option, etc.

**Target Audience:**

Target audiences for this project does not limit to a person who keeps travelling but everyone. People could simply decide to look for a similar restaurant all the time because they are addicted to a specific category of food. People who rarely use restaurants would prefer to have the most rated restaurants nearby them and all this could be easily handled by our recommender system. So target for this project is basically everyone who is exploring different places or similar places.

**Success rate:**

With restaurants evolving, new food categories emerge, hybrid food starts to be more popular, we need a system that could help us access vast number of food varieties. It is impossible for a person to ask each and every one about their visit to a particular place and also not everyone remembers everything. On the other hand, Computers are good at remembering things, and with Machine learning to its peak, it high time technology will by our personal guidance and help us personally based on our likes and dislikes. So people would care about this project as their personal assistance and success rate could certainly increase with time.

**Dashboarding:**

**Here we Prepare a dashboard in tableau which will explain all points in the data Sets. The detail description of dashboard are given below in the below link –**

[Identifying and Recommending Best Restaurants123 | Tableau Public](https://public.tableau.com/app/profile/rahul.bhogare/viz/IdentifyingandRecommendingBestRestaurants123/Dashboard1)