# Coursera Capstone Project for IBM Data Science Specialization - Week 1

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## 2. Data

For this project I will use the following data:

1. Dallas City restaurants inspection data from 2016-2019
   - Datasource:https://www.dallasopendata.com/api/views/dri5-wcct/rows.csv?accessType=DOWNLOAD
   - Description: This data set contains 37876 rows and 114 columns with Restaurant Name, Street Name, violation descriptions along with their latitude and longitude. This data will be downloaded and used.

**Fig.1. Snapshot of the Dallas City Restaurants Inspection data loaded into a data frame**

This dataset contains most of the information that will be needed for the project such as location information, street name, etc., However, this dataset contains mixed datatypes in all 114 columns and needs extensive cleaning before it can be used for the project.

```
Restaurant Name              object
Inspection Type              object
Inspection Date              object
Inspection Score              int64
Street Number                 int64
Street Name                  object
Street Direction             object
Street Type                  object
Street Unit                  object
Street Address               object
Zip Code                     object
Violation Description - 1    object
Violation Points - 1        float64
Violation Detail - 1         object
Violation Memo - 1           object
Violation Description - 2    object
Violation Points - 2        float64
Violation Detail - 2         object
Violation Memo - 2           object
Violation Description - 3    object
Violation Points - 3        float64
Violation Detail - 3         object
Violation Memo - 3           object
Violation Description - 4    object
Violation Points - 4        float64
Violation Detail - 4         object
```

**Fig.2. A snapshot of datatypes of the columns in the data frame.**

2. Ratings of Indian restaurants for selected locality in Dallas City
   - Data source: Foursquare API
   - Description: By using this API we will get all the ratings for Indian restaurants in selected neighborhood