**Data**

- **Location of various cities across India along with latitude and longitudes is needed. Data(CSV) file from https://simplemaps.com/data/in-cities is used for this. This CSV file is read in the project and coverted to a data frame. Here is a sample of CSV**

| | A | B | C |
|---|---|---|---|
| 1 | city | lat | lng |
| 2 | Mumbai | 18.987807 | 72.836447 |
| 3 | Delhi | 28.651952 | 77.231495 |
| 4 | Kolkata | 22.562627 | 88.363044 |
| 5 | Chennai | 13.084622 | 80.248357 |
| 6 | Bengaluru | 12.977063 | 77.587106 |
| 7 | Hyderabad | 17.384052 | 78.456355 |
| 8 | Ahmedabad | 23.025793 | 72.587265 |
| 9 | Haora | 22.576882 | 88.318566 |
| 10 | Pune | 18.513271 | 73.849852 |
| 11 | Lucknow | 26.839281 | 80.923133 |
| 12 | Indore | 22.717736 | 75.85859 |
| 13 | Vadodara | 22.299405 | 73.208119 |
| 14 | Bhopal | 23.254688 | 77.402892 |
| 15 | Coimbatore | 11.005547 | 76.966122 |
| 16 | Vishakhapatnam | 17.704052 | 83.297663 |

- **Venue data of various Indian cities is extracted using Foursquare Explore venue API. It returns a list of different kind of venues like Hotels, Restaurants, Museums etc. More details can be explored in https://developer.foursquare.com/docs/api. Below is a data frame constructed with this data.**

| | City | Latitude | Longitude | VenueName | VenueLatitude | VenueLongitude | VenueCategory |
|---|---|---|---|---|---|---|---|
| 0 | Mumbai | 18.987807 | 72.836447 | The St. Regis Mumbai | 18.993652 | 72.825220 | Hotel |
| 1 | Mumbai | 18.987807 | 72.836447 | High Street Phoenix | 18.994967 | 72.825032 | Shopping Mall |
| 2 | Mumbai | 18.987807 | 72.836447 | Jai Hind Lunch Home | 19.002183 | 72.829512 | Seafood Restaurant |
| 3 | Mumbai | 18.987807 | 72.836447 | Smoke House Deli | 18.994478 | 72.824400 | Restaurant |
| 4 | Mumbai | 18.987807 | 72.836447 | The Sahib Room & Kipling Bar | 18.994333 | 72.823850 | Indian Restaurant |