

Background

- A hypothetical tourism company named **Personal Travel Guide** (a startup) provides complete package for personalized travel plans (Travel, accommodation and food) to customers based on their very specific requirements.
- It claims to provide the complete solution for the travel so that the customer need not to worry about anything during the travel and stay and can enjoy the tour at fullest.

Problem

The Sinhas have decided to go to New York for a five-day tour and they have approached Personal Travel Guide to plan their trip. They have mentioned few specific requirements for their trip based on which they want their trip planned-

- 5 day stay in New York
- Hotel should be in the central location of the city from where all the main tourist points are nearby. Hotel should have good ratings, an excellent view and should have amenities such as swimming pool, breakfast on bed, TV and a refrigerator in room.
- A detailed plan of every day itinerary including the tourist points to cover and famous eating joints around those points.
- Famous night clubs and Indian restaurants near the Hotel.
- Famous places to shop near the Hotel

Data Description

Following data will be required for this project:

- List of Hotels in central New York, their ratings and reviews, amenities provided by them
- List of famous tourist points and their distance from the list of hotels obtained in 1st point
- After the finalization of hotel, list of night clubs and Indian restaurants near the hotel and their ratings and reviews
- List of shopping places near the selected hotel and their ratings and reviews

The data for this project is taken from Foursquare API. The list of hotels, restaurants, tourist destinations and night clubs based on popularity and other requirements such as distance and user ratings can be extracted from foursquare.

Methodology

Hotel selection:

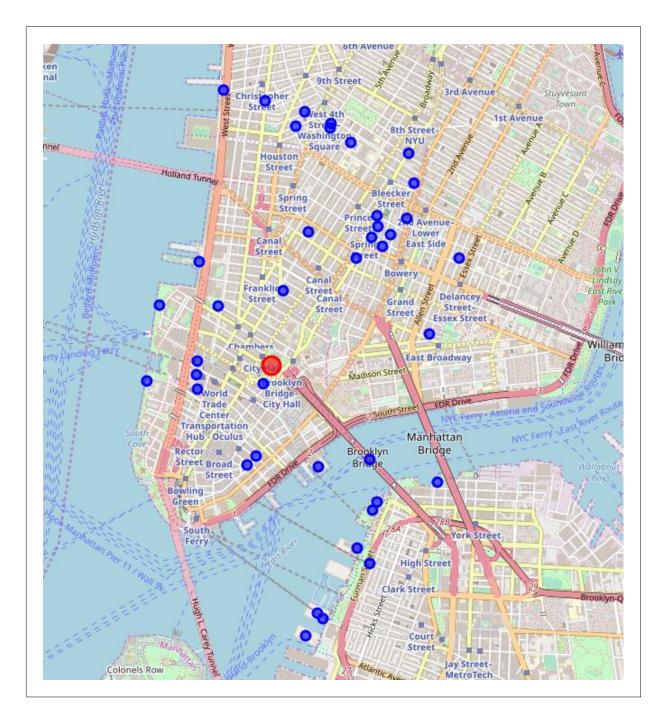
- List of hotels in central New York (within 5 km radius) will be extracted from Foursquare.
- Hotels with the required amenities (Breakfast on Bed, swimming pool, TV and refrigerator) will be filtered from the list
- The filtered list of hotels will be checked against user reviews and the ones having 'excellent/good view' and an average rating greater than 4/5 will be selected
- A list of most famous tourist points will be extracted from Foursquare and their distances from the list of hotels obtained will be calculated to get the hotel with minimum distance from all the selected tourist points for 5 days

List of tourist points to cover every day:

- Obtain 40 most popular venues within 20 km radius of selected hotel
- Perform Cluster analysis on these venues and divide them in 5 clusters based on distance from the hotel (5 clusters for 5 days)
- Tourist points in each cluster will be covered each day of the 5 day stay

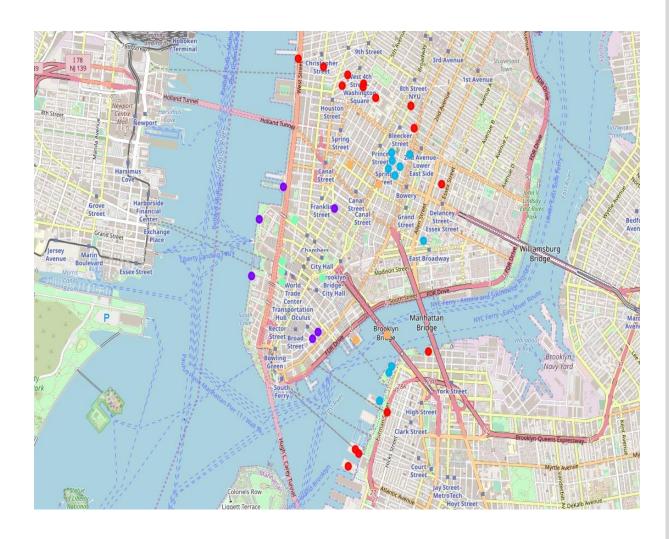
List of Indian restaurants, shopping places and night clubs near the hotel:

• List of most famous Indian restaurants, shopping places and night clubs within 1 km radius of the hotel will be extracted from Foursquare and top 5 locations will be selected in each category based on user ratings and reviews.



Map of selected hotel and most popular venues around the hotel

- Hotel red circle
- Nearby most popular venues blue circles



Snapshot of cluster labels for venues

Cluster Labels	name
3	The Bar Room at Temple Court
3	9/11 Memorial North Pool
3	One World Trade Center
3	9/11 Memorial South Pool
3	Washington Market Park
1	Aire Ancient Baths
1	Crown Shy
1	Battery Park City Esplanade
1	Nelson A. Rockefeller Park
1	sweetgreen
1	Pier 25 - Hudson River Park
4	The Rooftop @ Pier 17
4	Brooklyn Bridge
4	La Compagnie des Vins Surnaturels
4	Sam Brocato Salon
2	Brooklyn Bridge Park
2	Metrograph
2	Brooklyn Bridge Park - Pier 1
2	CAVA
2	Stick With Me

Popular Shopping places near Hotel

name	categories	address	СС	city	country	cross Street	distance	formattedAddress
Shopping Box	Miscellaneous Shop	360 Broome St	US	New York	United States	Mott	1446	[360 Broome St (Mott), New York, NY 10013, Uni
Mei Bang Shopping Center	Clothing Store	NaN	US	New York	United States	NaN	1048	[New York, NY, United States]
5th Avenue Shopping Court	Christmas Market	NaN	US	New York	United States	NaN	5241	[New York, NY 10036, United States]
AzokaBD WOMEN'S SHOPPING	Market	19021 Midway Rd	US	Dallas	United States	NaN	1185	[19021 Midway Rd, Dallas, TX 75287, United Sta
Chic NYC Shopping Tour	Miscellaneous Shop	187 Spring St	US	New York	United States	NaN	1503	[187 Spring St, New York, NY 10012, United Sta
iBraggiotti Jewelry	Jewelry Store	21 Warren St	US	New York	United States	New York	213	[21 Warren St (New York), New York, NY 10007,
shopping with Sue	Department Store	NaN	US	New York	United States	NaN	4273	[New York, NY 10001, United States]
Old Colony Shopping Center	Miscellaneous Shop	NaN	US	Jersey City	United States	NaN	3704	[Jersey City, NJ 07302, United States]
Shoe Shopping	None	NaN	US	NaN	United States	NaN	4909	[New York, United States]
40Th St W Shopping Plaza	Shopping Plaza	NaN	US	New York	United States	NaN	5025	[New York, NY 10018, United States]

<u>Popular Indian</u>

Restaurants near Hotel

name	categories	address	CC	city	country	cross Street	distance	formattedAddress
Bombay's Indian Restaurant	Indian Restaurant	60 Pearl St	US	New York	United States	Broad St.	1017	[60 Pearl St (Broad St.), New York, NY 10004,
Tamarind TriBeCa	Indian Restaurant	99 Hudson St	US	New York	United States	at Franklin St	736	[99 Hudson St (at Franklin St), New York, NY 1
A Saffron Thread Fresh Indian	Indian Restaurant	98 Chambers St	US	New York	United States	at Church St	284	[98 Chambers St (at Church St), New York, NY 1
Ruchi Indian Cuisine	Indian Restaurant	120 Cedar St	US	New York	United States	btwn Greenwich St. & Trinity Pl.	422	[120 Cedar St (btwn Greenwich St. & Trinity Pl
Aahar Indian Cuisine	Indian Restaurant	10 Murray St	US	New York	United States	Broadway	140	[10 Murray St (Broadway), New York, NY 10007,
Indian Express	Indian Restaurant	18 Murray St	US	New York	United States	Church St.	144	[18 Murray St (Church St.), New York, NY 10007

Popular night clubs

Near Hotel

name	categories	address	СС	city	country	cross Street	distance	formattedAddress
KTU Professional Radio DJ Night Club and Lounge	Nightclub	32 Avenue of the Americas	US	New York	United States	NaN	936	[32 Avenue of the Americas, New York, NY 10013
Club Remix	Nightclub	27 Park Pl	US	New York	United States	btwn Church St. & Broadway	85	[27 Park PI (btwn Church St. & Broadway), New
20-20 latin club	Nightclub	NaN	US	New York	United States	NaN	216	[New York, NY 10013, United States]



THANK YOU