Suggesting suitable location to live in "Silicon Valley of India – Bengaluru"
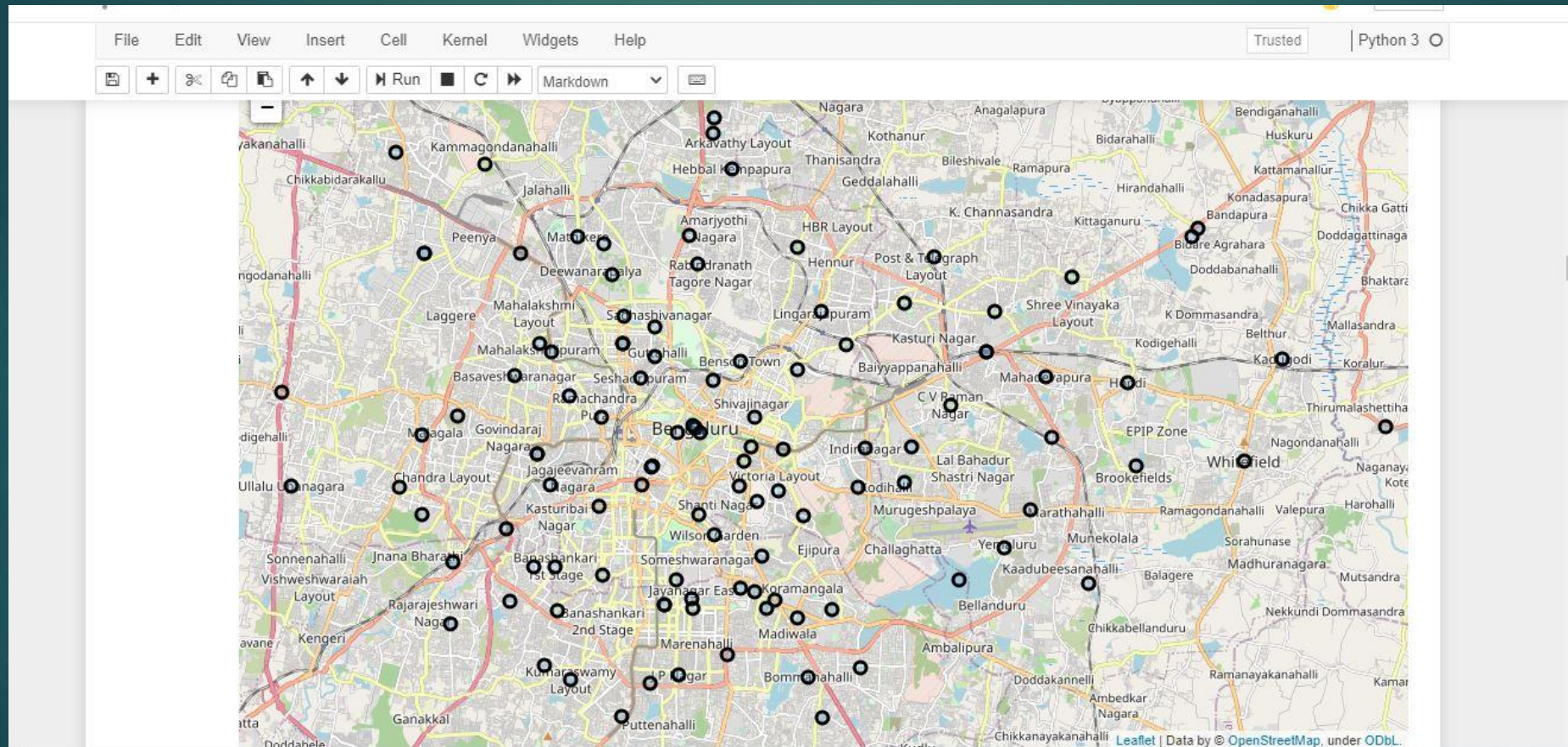
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Introduction

- Bengaluru is the capital of the Indian State of Karnataka. It has a population of about 10 million and a metropolitan population of about 8.52 million.

- Many MNCs like Google, Apple have their branches here too, making it very popular for job seekers.

- It is also the one of the best places for engineering education.

- Thus making it very popular city for moving to, so this project is for helping people find ideal location to live at.

Data Acquisition and Cleaning

▶ The Pin Code data and locations were obtained from the website : https://www.mapsofindia.com/pincode/india/karnataka/bangalore/

▶ The latitude and longitude of each location was obtained by using GeoPy library of Python.

▶ Those locations were removed from the data set whose latitude and longitude details cannot be obtained.

Using Folium to plot all the locations on the Map Of Bengaluru

For Joint Families

▶ Categories used to sort the locations were :

```
bnglu_venues["Venue Cat"].unique()

array(['Hospital', 'High School', 'Middle School', 'School',
       'Nursery School', 'Garden', 'Music School', 'Park', 'Plaza',
       'Pet Service', 'Preschool', 'Language School', 'Elementary School',
       'Emergency Room', 'Driving School', 'Adult Education Center',
       'Religious School', 'Private School', 'Tech Startup'], dtype=object)
```

▶ Based on above categories top 5 locations to live are:

1. Malleswaram

2. Vasanthnagar

3. JayaNagar

4. Madhavan Park

5. Mico Layout

For Bachelor Job Seekers

▶ Following categories were used for sorting the locations:

```
In [46]: bach["Venue Cat"].unique()

Out[46]: array(['Cocktail Bar', 'Fast Food Restaurant', 'Indian Restaurant',
         'Andhra Restaurant', 'Beer Garden', 'Cafeteria',
         'Food & Drink Shop', 'Karnataka Restaurant', 'Bar', 'Wine Bar',
         'South Indian Restaurant', 'Chaat Place', 'Dhaba', 'Whisky Bar',
         'Other Nightlife', 'Hotel Bar', 'Farmers Market', 'Grocery Store',
         'Laundry Service', 'Liquor Store', 'Udupi Restaurant',
         'Szechuan Restaurant', 'Breakfast Spot', 'North Indian Restaurant',
         'College Cafeteria', 'Multicuisine Indian Restaurant', 'Brewery',
         'Nightclub', 'Fish Market', 'Snack Place', 'Butcher',
         'Punjabi Restaurant', 'Department Store',
         'Maharashtrian Restaurant', 'Vegetarian / Vegan Restaurant',
         'Bakery', 'Indian Sweet Shop', 'Dry Cleaner', 'Pub',
         'Gourmet Shop', 'Kerala Restaurant', 'Indian Chinese Restaurant',
         'Dairy Store', 'Tennis Stadium', 'Sports Bar',
         'Middle Eastern Restaurant', 'Supermarket', 'Diner', 'Gay Bar',
         'Strip Club', 'Hotel', 'General Entertainment', 'Lounge',
         'Dive Bar', 'Wine Shop', 'Mughlai Restaurant',
         'Seafood Restaurant', 'Bengali Restaurant', 'Food',
         'Mediterranean Restaurant', 'BBQ Joint', 'Rajasthani Restaurant',
         'Health Food Store', 'Food Truck', 'Street Food Gathering',
         'Hyderabadi Restaurant', 'Parsi Restaurant', 'Asian Restaurant',
         'Hookah Bar', 'Music Venue', 'Northeast Indian Restaurant',
         'American Restaurant', 'Arcade', 'Chettinad Restaurant',
         'Organic Grocery', 'Restaurant', 'Food Service',
         'Chinese Restaurant', 'African Restaurant', 'Gastropub',
         'Italian Restaurant', 'Shopping Mall', 'Beer Bar', 'Irish Pub',
         'Café', 'Event Space', 'Beer Store', 'Cheese Shop', 'Karaoke Bar',
         'Coffee Shop', 'Thai Restaurant', 'Office', 'Juice Bar',
         'Kebab Restaurant', 'Mexican Restaurant', 'Speakeasy',
         'Nightlife Spot', 'Eastern European Restaurant',
         'Southern / Soul Food Restaurant', 'Dessert Shop'], dtype=object)
```

For Bachelor Job Seekers

- Based on the categories mentioned in previous slide the top 5 locations for bachelors are:

1.Hosur Road

2. Brigade Road

3. Museum Road

4. HSR Layout

5. Koramangala I Block

For Students

- Following categories were used to decide the ideal location for college students:

```
In [45]: students["Venue Cat"].unique()

Out[45]: array(['College Administrative Building', 'Hostel', 'Student Center',
                'College Auditorium', 'College Academic Building',
                'College Library', 'College Classroom', 'University',
                'College Engineering Building', 'Medical School',
                'College Rec Center', 'College Cafeteria',
                'General College & University', 'College Technology Building',
                'Laundry Service', 'Bookstore', 'College Bookstore', 'College Gym',
                'College Residence Hall', 'Law School',
                'College Communications Building', 'Fraternity House',
                'Trade School', 'College Science Building',
                'College Basketball Court', 'College Lab', 'College Math Building',
                'Dry Cleaner', 'College Theater', 'College Arts Building',
                'College & University', 'College Soccer Field', 'College Quad',
                'Community College', 'Stationery Store', 'College Football Field',
                'College Hockey Rink', 'College Cricket Pitch', 'Hospital',
                'College Tennis Court', 'Hotel', 'Café', 'College Stadium',
                'College Track', 'Department Store', 'Tech Startup',
                'Electronics Store', 'Concert Hall', 'Library', 'Sorority House'],
               dtype=object)
```

For Students

- Based in the categories mentioned in the previous slide the top 5 location for students to reside at are:

1. Msrit

2. Dharmaram College

3. Taverekere

4. Brigade Road

5. Museum Road

Conclusion

The City of Bengaluru is a hub for every kind of opportunities , as a result it attracts lots of people. After completing the project it was realised that Bengaluru has vast number of different location which provide all the necessary venue requirements.

In a nutshell we can say that Bengaluru is attractive and fulfilling as well.

Thank You !!!!