OYO_COMBINED

May 9, 2024

[2]: import numpy as np

```
import pandas as pd
     import requests
     from bs4 import BeautifulSoup as bs
     import csv
[3]: # Function to scrape data from a single page
     def scrape_page(url, headers):
         page = requests.get(url, headers=headers)
         soup = bs(page.content, 'html.parser')
         lists = soup.find_all('div', class_='oyo-row oyo-row--no-spacing_
      ⇔listingHotelDescription')
         data list = []
         for li in lists:
            hotel_name = li.find('h3', class_='listingHotelDescription__hotelName_u

¬d-textEllipsis').text

             location = li.find('span', class_='u-line--clamp-2').text
             original_price = li.find('span', class_='listingPrice__slashedPrice_

¬d-body-lg').text

             discount_price = li.find('span', class_='listingPrice__finalPrice').text
             discount = li.find('span', class_='listingPrice__percentage').text
             rating = li.find('div', class_='hotelRating').text
             rating_summary = li.find('div', class_='hotelRating_wrapper').text if_
      →li.find('div', class_='hotelRating_wrapper') else "N/A"
             total_ratings = li.find('span', class_='hotelRating__ratingSummary').
      otext if li.find('span', class_='hotelRating_ratingSummary') else "N/A"
             tax = li.find('div', class_='listingPrice__perRoomNight').text if li.
      ofind('div', class_='listingPrice_perRoomNight') else "N/A"
             amenities = li.find('div', class_='amenityWrapper').text if li.
      ofind('div', class ='amenityWrapper') else "N/A"
             data = [hotel name, location, original price[1:], discount price[1:],
      -discount[0:3], rating[0:3], rating summary, total ratings[1:], tax,__
      →amenities]
            data_list.append(data)
```

```
return data_list
```

1 Scraping Chennai data

```
[4]: # OYO rooms base url
     base url = 'https://www.oyorooms.com/hotels-in-chennai/'
     headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
      →537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
     # Number of pages to scrape (you may need to adjust this based on the \operatorname{actual}_{\sqcup}
      →number of pages)
     num_pages = 6
     # Context manager for creating a CSV file
     with open('Chennai_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
         writer = csv.writer(file)
         header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
      → 'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
      ⇔'Amenities', 'Region']
         writer.writerow(header)
         # Loop through pages and scrape data
         for page_num in range(1, num_pages + 1):
             url = f'{base_url}?page={page_num}'
             page_data = scrape_page(url, headers)
             for data_row in page_data:
                 data_row.append('Chennai')
                 writer.writerow(data_row)
```

```
[5]: # Dataframe creation
    df_chennai = pd.read_csv('Chennai_hotelData.csv')
    df_chennai
```

```
[5]:
                                                  Hotel Name \
                                           Flagship Tambaram
     1
                                 Collection O Tranquil Nest
     2
                                OYO Flagship Elite Residency
     3
                            Collection O The Oaks Residency
     4
                                Townhouse 1248 Majestic Inn
     115
                                        OYO Flagship Manvaar
     116
                               Collection O 142 Vadapalani
     117
                                  OYO Flagship Golden Manor
     118 OYO Home Harma Residency Near Koyambedu Metro ...
```

```
Location
                                                        Original Price \
0
     Near Tambaram Railwaystation, Tambaram, Chennai
                                                                   2833
1
                                Pallikaranai, Chennai
                                                                  2474
2
                                 Rajan Nagar, Chennai
                                                                  2333
3
         Dental Collage, Kamakotti Nagar, Pallikaranai
                                                                  3282
4
                   Viveks Showroom Backside, Chennai
                                                                  5258
                                     Chennai, Chennai
115
                                                                   4368
                    Arumbakkam (mmda Bustop), Chennai
116
                                                                  5179
117
                                   Periyamet, Chennai
                                                                  3397
118
                              Mugappair West, Chennai
                                                                  4577
119
                                     Chennai, Chennai
                                                                  2978
     Discounted Price Discount User Rating
                                                            Rating Summary
0
                  591
                            75%
                                        4.2
                                              4.2 (1015 Ratings) · Very Good
1
                  499
                            75%
                                        3.3
                                                     3.3 (10 Ratings) · Fair
2
                  479
                            75%
                                        4.6
                                               4.6 (198 Ratings) · Excellent
3
                  421
                            84%
                                        4.1
                                              4.1 (776 Ratings) · Very Good
                            72%
4
                 1279
                                        4.7
                                              4.7 (925 Ratings) · Excellent
                            77%
                                        4.2
                                                 4.2 (6 Ratings) · Very Good
115
                  845
                                                    3.8 (186 Ratings) · Good
116
                 1259
                            72%
                                        3.8
117
                  767
                            73%
                                        3.0
                                                     3.0 (12 Ratings) · Fair
118
                 1100
                            71%
                                        4.0
                                               4.0 (343 Ratings) · Very Good
                                                     3.7 (29 Ratings) · Good
119
                   690
                            72%
                                        3.7
     Total Ratings
                     + 111 taxes & fees · per room per night
0
     1015 Ratings)
1
                    + 100 taxes & fees · per room per night
       10 Ratings)
2
                      + 97 taxes & fees · per room per night
      198 Ratings)
3
      776 Ratings)
                     + 90 taxes & fees · per room per night
4
      925 Ratings)
                    + 193 taxes & fees · per room per night
115
        6 Ratings)
                    + 141 taxes & fees · per room per night
                    + 191 taxes & fees · per room per night
116
      186 Ratings)
                    + 132 taxes & fees · per room per night
117
       12 Ratings)
                    + 182 taxes & fees · per room per night
118
      343 Ratings)
       29 Ratings)
                    + 123 taxes & fees · per room per night
119
                                               Amenities
                                                           Region
0
       Free Wifi Geyser Daily housekeeping + 2 more Chennai
1
      Parking facility Reception Free Wifi
                                               + 15 ... Chennai
2
                 Elevator Free Wifi Geyser
                                               + 5 more
                                                          Chennai
3
      Doctor on call Reception Ticket tour assist...
4
                 Elevator Free Wifi Geyser + 5 more Chennai
```

```
115 Free Wifi Daily housekeeping AC + 1 more Chennai

116 Private entrance Parking facility Reception... Chennai

117 Reception Free Wifi Power backup + 12 more Chennai

118 Free Wifi Daily housekeeping AC + 4 more Chennai

119 Elevator Free Wifi Geyser + 5 more Chennai

[120 rows x 11 columns]
```

2 Scraping Banglore data

```
[6]: # OYO rooms base url
     base url = 'https://www.oyorooms.com/hotels-in-bangalore/'
     headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
     ⇒537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
     # Number of pages to scrape (you may need to adjust this based on the actual
      →number of pages)
     num_pages = 14
     # Context manager for creating a CSV file
     with open('Bangalore hotelData.csv', 'w', newline='', encoding='UTF8') as file:
         writer = csv.writer(file)
         header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price', 'I
      → 'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
      ⇔'Amenities', 'Region']
         writer.writerow(header)
         # Loop through pages and scrape data
         for page num in range(1, num pages + 1):
             url = f'{base_url}?page={page_num}'
             page_data = scrape_page(url, headers)
             for data_row in page_data:
                 data_row.append('Bangalore')
                 writer.writerow(data_row)
```

```
[7]: # Dataframe creation
    df_bangalore = pd.read_csv('Bangalore_hotelData.csv')
    df_bangalore
```

```
[7]:

O Super OYO Townhouse Reva College University
OYO Flagship HOTEL SKYSPACE Near Hare Krishna ...
OYO Athithi Comforts
Super OYO Townhouse 1292 XOTEL
```

```
4
                      Super OYO Collection O Hotel Manu
. .
275
                              OYO Sri Sai Guru Comforts
                             OYO CHAMUNDESHWARI COMFORT
276
277
                  Collection O Hotel Champion Paradise
                          OYO Flagship 812664 Slv Hotel
278
279
                SPOT ON 71449 Ssr Lodging And Boarding
                                                Location
                                                          Original Price
0
                                        India, Bangalore
                                                                     3397
            Yeswantpur Near Railway Station, Bangalore
1
                                                                     2736
2
     Near Happy Home Shopping Mall, RR Nagar, Banga...
                                                                   2790
3
                                     Phase 2, Bangalore
                                                                     3185
                                Babusabpalya, Bangalore
4
                                                                     4309
275
     Near Kodigihalli Gate, Byatarayanapura, Bangalore
                                                                     3414
                            Near Vishal Mart, Bangalore
276
                                                                     2426
277
                                        India, Bangalore
                                                                     4179
278
                              Vidyaranyapura, Bangalore
                                                                     4475
279
           Near Jumma masjid, Shivaji Nagar, Bangalore
                                                                     2592
     Discounted Price Discount User Rating
                                                           Rating Summary
0
                   906
                            68%
                                         5.0
                                             5.0 (4131 Ratings) · Fabulous
1
                   499
                            78%
                                              4.0 (738 Ratings) · Very Good
                                         4.0
2
                   482
                            78%
                                                   3.9 (211 Ratings) · Good
                                         3.9
3
                  761
                            71%
                                         4.9
                                              4.9 (1043 Ratings) · Fabulous
4
                  1042
                            71%
                                         4.4
                                             4.4 (461 Ratings) · Very Good
275
                   818
                            72%
                                         3.6
                                                    3.6 (59 Ratings) · Good
276
                            73%
                                         2.4
                                                    2.4 (12 Ratings) · Fair
                   542
277
                  1127
                            68%
                                                   3.8 (161 Ratings) · Good
                                         3.8
278
                   971
                            74%
                                         3.5
                                                    3.5 (32 Ratings) · Good
279
                   758
                            65%
                                                   3.4 (132 Ratings) · Fair
                                         3.4
     Total Ratings
0
     4131 Ratings)
                     + 149 taxes & fees · per room per night
                     + 100 taxes & fees · per room per night
1
      738 Ratings)
2
      211 Ratings)
                     + 128 taxes & fees · per room per night
                     + 131 taxes & fees · per room per night
3
     1043 Ratings)
4
      461 Ratings)
                     + 165 taxes & fees · per room per night
. .
275
       59 Ratings)
                     + 138 taxes & fees · per room per night
       12 Ratings)
                    + 105 taxes & fees · per room per night
276
277
      161 Ratings)
                     + 175 taxes & fees · per room per night
                    + 157 taxes & fees · per room per night
278
       32 Ratings)
279
      132 Ratings) + 141 taxes & fees · per room per night
```

```
Amenities
                                                       Region
0
            Elevator Reception Free Wifi + 7 more
                                                    Bangalore
1
     Elevator Parking facility Free Wifi + 6 more
                                                    Bangalore
2
       Reception Free Wifi Power backup + 11 more
                                                    Bangalore
3
               Elevator Free Wifi Geyser + 5 more
                                                    Bangalore
4
               Elevator Free Wifi Geyser + 5 more
                                                    Bangalore
275
      Hair Dryer Free Wifi Power backup + 14 more Bangalore
           Free Wifi Geyser Power backup + 3 more
276
                                                    Bangalore
277
               Elevator Free Wifi Geyser + 5 more
                                                    Bangalore
                                                    Bangalore
278
               Elevator Free Wifi Geyser + 5 more
279
                  Free Wifi TV Daily housekeeping
                                                    Bangalore
```

3 Scraping Hyderabad data

[280 rows x 11 columns]

```
[8]: # OYO rooms base url
     base_url = 'https://www.oyorooms.com/hotels-in-hyderabad/'
     headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
      →537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
     # Number of pages to scrape (you may need to adjust this based on the actual \Box
     →number of pages)
     num_pages = 17
     # Context manager for creating a CSV file
     with open('Hyderabad_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
         writer = csv.writer(file)
         header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
      →'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', 

¬'Amenities', 'Region']

         writer.writerow(header)
         # Loop through pages and scrape data
         for page_num in range(1, num_pages + 1):
             url = f'{base_url}?page={page_num}'
             page_data = scrape_page(url, headers)
             for data_row in page_data:
                 data_row.append('Hyderabad')
                 writer.writerow(data_row)
```

```
[9]: # Dataframe creation
df_hyderabad = pd.read_csv('Hyderabad_hotelData.csv')
df_hyderabad
```

```
[9]:
                                                   Hotel Name
     0
                     Super OYO Townhouse OAK Hotel SSV Grand
     1
                Super OYO Collection O White Ridge Kamineni
     2
          Super OYO Collection O Hotel Pnr International...
               Super OYO 819847 Magnus Suites Luxury rooms
     3
             SilverKey Gachibowli Near JV Colony Gachibowli
     4
     335
                                     Collection O Hotel Stayo
                               OYO ARKA RESORTS VENUE OF JOY
     336
     337
                                 OYO 820761 HOTEL SITA GRAND
     338
                                             OYO ROYAL HAVEN
                Super OYO Collection O Hotel 7 Hills Suites
     339
                                           Location
                                                     Original Price
     0
          Near Radhe Nagar, Gachibowli, Hyderabad
                                                                5662
     1
                     Rajeevgandhi Nagar, Hyderabad
                                                                4149
     2
                              Hyderabad, Hyderabad
                                                                2950
                              Hyderabad, Hyderabad
     3
                                                                3397
     4
                   Near KFC, JV Colony, Hyderabad
                                                                4338
             HyderabadBeside Desi chai, Hyderabad
     335
                                                                4385
                           Hayath Nagar, Hyderabad
     336
                                                                6494
     337
                      6-111/1Shamshabad, Hyderabad
                                                                2977
     338
                  62/APadma Sri Gardens, Hyderabad
                                                                3819
     339
                       Suchitra X Roads, Hyderabad
                                                                5094
          Discounted Price Discount
                                                                   Rating Summary
                                       User Rating
     0
                        915
                                 81%
                                                     4.4 (1197 Ratings) · Very Good
                        895
                                 74%
                                               4.7
                                                     4.7 (144 Ratings) · Excellent
     1
     2
                        641
                                 74%
                                               4.5
                                                      4.5 (889 Ratings) · Excellent
     3
                        735
                                 74%
                                               4.4
                                                      4.4 (95 Ratings) · Very Good
     4
                       1049
                                 71%
                                               4.7
                                                     4.7 (1195 Ratings) · Excellent
     335
                                 72%
                                               3.9
                                                           3.9 (120 Ratings) · Good
                       1061
                                                        4.0 (3 Ratings) · Very Good
     336
                       1587
                                 72%
                                               4.0
     337
                        499
                                 79%
                                               3.7
                                                            3.7 (17 Ratings) · Good
                                                             2.5 (7 Ratings) · Fair
     338
                        920
                                 71%
                                               2.5
     339
                       1237
                                 72%
                                               4.6
                                                      4.6 (45 Ratings) · Excellent
          Total Ratings
                                                                 Tax
                            150 taxes & fees · per room per night
     0
          1197 Ratings)
     1
           144 Ratings)
                          + 147 taxes & fees · per room per night
     2
           889 Ratings)
                            117 taxes & fees · per room per night
     3
            95 Ratings)
                            118 taxes & fees · per room per night
     4
          1195 Ratings)
                          + 166 taxes & fees · per room per night
     335
                         + 167 taxes & fees · per room per night
           120 Ratings)
```

```
336
       3 Ratings) + 231 taxes & fees · per room per night
337
      17 Ratings) + 100 taxes & fees · per room per night
338
       7 Ratings) + 150 taxes & fees · per room per night
      45 Ratings) + 189 taxes & fees · per room per night
339
                                           Amenities
                                                        Region
0
          Free Wifi AC Daily housekeeping + 1 more Hyderabad
1
                Elevator Free Wifi Geyser + 5 more Hyderabad
                Elevator Free Wifi Geyser + 5 more Hyderabad
2
3
                Elevator Free Wifi Geyser + 5 more Hyderabad
     Private entrance Reception Free Wifi + 14 ... Hyderabad
4
335
                Elevator Free Wifi Geyser + 5 more Hyderabad
336
            Free Wifi Geyser Power backup + 3 more Hyderabad
            Free Wifi Geyser Power backup + 2 more Hyderabad
337
338
                Elevator Free Wifi Geyser + 4 more Hyderabad
339
            Free Wifi Geyser Power backup + 2 more Hyderabad
```

[340 rows x 11 columns]

4 Scraping delhi data

```
[10]: # OYO rooms base url
      base url = 'https://www.oyorooms.com/hotels-in-delhi/'
      headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
       ⇔537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                 "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
      # Number of pages to scrape (you may need to adjust this based on the actual_{\mathsf{U}}
       →number of pages)
      num_pages = 15
      # Context manager for creating a CSV file
      with open('Delhi_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
          writer = csv.writer(file)
          header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
       →'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', 
       →'Amenities', 'Region']
          writer.writerow(header)
          # Loop through pages and scrape data
          for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
              page_data = scrape_page(url, headers)
              for data_row in page_data:
                  data_row.append('Delhi')
```

writer.writerow(data_row)

```
[11]: # Dataframe creation
df_delhi = pd.read_csv('Delhi_hotelData.csv')
df_delhi
```

```
[11]:
                                                     Hotel Name \
      0
           Super OYO Flagship SK Residency Rohini Near Ri...
      1
           Collection O Jps Grand Hotel Near Dwarka Metro...
      2
                                       Super OYO Townhouse 654
      3
                                         OYO Hotel Crystal INN
      4
                             OYO Flagship Blue Moon Residency
           Flagship Imperial Residency Near Dashrath Puri...
      295
      296
                                  OYO Flagship Hotel Cozy Stay
                             OYO Flagship Ls Banquet & Rooms
      297
      298
                  OYO Sunrise Villa Near Select Citywalk Mall
      299
                                            OYO Diamond Deluxe
                                                       Location Original Price \
      0
           G-8 Mange Ram Park Extension Rohini Sector 23,...
                                                                          2717
      1
           B2/314,Old Palam Road, Near Dwarka Mor Metro S...
                                                                          1962
      2
                                            North Delhi, Delhi
                                                                             3143
      3
           near Dwarka mod metro station
                                           near Dwarka mod...
                                                                           2669
                                               New Delhi, Delhi
      4
                                                                             2909
      . .
      295
                                               New Delhi, Delhi
                                                                             2331
      296
                                                  Rohini, Delhi
                                                                             5359
      297
                        Near Harsh Vihar, Shakti Vihar, Delhi
                                                                             3519
           Paras pg mb road khanapur near Manu lal buildi...
      298
                                                                          3398
      299
                                        Dwarka Sector 7, Delhi
                                                                             3229
           Discounted Price Discount User Rating
                                                                    Rating Summary \
                                                     4.7 (1148 Ratings) · Excellent
      0
                         544
                                   76%
                                                4.7
      1
                         499
                                   69%
                                                3.5
                                                            3.5 (215 Ratings) · Good
                         605
      2
                                                     4.5 (2463 Ratings) · Excellent
                                   76%
                                                4.5
      3
                         602
                                                      4.2 (311 Ratings) · Very Good
                                   73%
                                                4.2
      4
                         565
                                   76%
                                                3.6
                                                            3.6 (152 Ratings) · Good
      . .
      295
                         549
                                   71%
                                                2.6
                                                             2.6 (20 Ratings) · Fair
      296
                                   71%
                                                4.3
                                                       4.3 (19 Ratings) · Very Good
                        1304
      297
                         943
                                   68%
                                                3.9
                                                              3.9 (9 Ratings) · Good
                                                             3.5 (30 Ratings) · Good
      298
                         813
                                   72%
                                                3.5
                                   72%
      299
                         771
                                                3.7
                                                             3.7 (16 Ratings) · Good
           Total Ratings
```

0 1148 Ratings) + 105 taxes & fees · per room per night

```
215 Ratings) + 100 taxes & fees · per room per night
1
2
    2463 Ratings) + 123 taxes & fees · per room per night
3
     311 Ratings) + 112 taxes & fees · per room per night
     152 Ratings) + 108 taxes & fees · per room per night
4
295
      20 Ratings) + 116 taxes & fees · per room per night
      19 Ratings) + 197 taxes & fees · per room per night
296
297
       9 Ratings) + 153 taxes & fees · per room per night
298
      30 Ratings) + 138 taxes & fees · per room per night
       16 Ratings) + 133 taxes & fees · per room per night
299
                                            Amenities Region
0
          Free Wifi Daily housekeeping AC + 1 more Delhi
1
         Reception Free Wifi Power backup + 6 more Delhi
2
     Ticket tour assistance Reception Free Wifi ... Delhi
3
            Free Wifi Geyser Power backup + 4 more Delhi
4
            Free Wifi Geyser Power backup + 4 more Delhi
        Reception Free Wifi Power backup + 10 more Delhi
295
296
            Free Wifi Geyser Power backup + 3 more Delhi
297
     Parking facility Free Wifi Power backup + ... Delhi
298
             Elevator Reception Free Wifi + 9 more Delhi
299
     Parking facility Reception Free Wifi + 11 ... Delhi
[300 rows x 11 columns]
```

[SOO TOWS X II COLUMNIS]

5 Scraping Mumbai data

```
# Loop through pages and scrape data
          for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
              page_data = scrape_page(url, headers)
              for data_row in page_data:
                   data_row.append('Mumbai')
                   writer.writerow(data_row)
[16]: # Dataframe creation
      df_mumbai = pd.read_csv('Mumbai_hotelData.csv')
      df mumbai
[16]:
                                                    Hotel Name
      0
                         Super OYO Flagship Hotel Golden Nest
      1
                                 Capital O Hotel Geeta Palace
      2
                                        OYO Flagship Yatri Inn
      3
                                  Flagship Hotel Yatri Yadgar
                               OYO Flagship Hotel Elite Plaza
      115
                          OYO Townhouse 781 Royal Palms Hotel
                              OYO Flagship Green Hills Resort
      116
      117
                            Super OYO Collection O Jk Regency
                                            OYO Della Comforts
      118
      119
           OYO Townhouse 808 Royal Palms Shared Serviced ...
                                                       Location
                                                                 Original Price
      0
                                           Boisar east, Mumbai
                                                                            3964
      1
                                           Navi Mumbai, Mumbai
                                                                            5070
      2
                                             Sector 26, Mumbai
                                                                            4368
      3
                                     Vashi Navi Mumbai, Mumbai
                                                                            4853
                                           Navi Mumbai, Mumbai
      4
                                                                            5602
           On main street, Near Aarey Colony, Goregaon Ea...
                                                                         10414
      115
      116
                                            Nalasopara, Mumbai
                                                                            6188
      117
                Near Pump House Subway, Andheri East, Mumbai
                                                                           10707
                                          Ulhasnagar 5, Mumbai
      118
                                                                            4438
      119
                                         Goregaon East, Mumbai
                                                                           10577
           Discounted Price Discount User Rating
                                                                  Rating Summary
      0
                         936
                                  72%
                                               4.5
                                                     4.5 (51 Ratings) · Excellent
                        1113
                                  74%
                                               4.0
                                                    4.0 (390 Ratings) · Very Good
      1
                                                    4.3 (386 Ratings) · Very Good
      2
                         862
                                  76%
                                               4.3
      3
                         961
                                  76%
                                               3.8
                                                          3.8 (506 Ratings) · Good
      4
                        1392
                                  71%
                                               5.0
                                                     5.0 (138 Ratings) · Fabulous
                                                          3.8 (439 Ratings) · Good
                                  72%
      115
                        2568
                                               3.8
      116
                        1157
                                  78%
                                               NEW
                                                                              NaN
```

```
117
                2632
                          72%
                                      4.1
                                            4.1 (31 Ratings) · Very Good
118
                           68%
                1190
                                      3.1
                                                 3.1 (24 Ratings) · Fair
119
                2609
                          72%
                                      3.7
                                                3.7 (389 Ratings) · Good
   Total Ratings
                                                       Tax \
0
     51 Ratings) + 152 taxes & fees · per room per night
    390 Ratings) + 184 taxes & fees · per room per night
1
2
    386 Ratings) + 144 taxes & fees · per room per night
3
    506 Ratings) + 165 taxes & fees · per room per night
4
    138 Ratings) + 207 taxes & fees · per room per night
. .
   439 Ratings) + 348 taxes & fees · per room per night
115
116
               /A + 179 taxes & fees · per room per night
117
     31 Ratings) + 366 taxes & fees · per room per night
     24 Ratings) + 193 taxes & fees · per room per night
118
119
    389 Ratings) + 353 taxes & fees · per room per night
                                            Amenities Region
0
          Free Wifi Daily housekeeping AC + 1 more Mumbai
1
     Ticket tour assistance Reception Free Wifi ... Mumbai
2
     Free Wifi Full Sized Bed Attached Washroom ... Mumbai
3
            Reception Free Wifi Caretaker + 9 more Mumbai
4
                Elevator Free Wifi Geyser + 5 more Mumbai
     Private entrance Parking facility Reception... Mumbai
115
116
            Free Wifi Geyser Power backup + 3 more Mumbai
117
     Parking facility Private entrance Reception... Mumbai
118
        Doctor on call Elevator Reception + 9 more Mumbai
119
     Reception Power backup 24/7 check-in + 35 ... Mumbai
[120 rows x 11 columns]
```

6 Scraping Gurgaon data

[]:

```
[17]: # OYO rooms base url
base_url = 'https://www.oyorooms.com/hotels-in-gurgaon/'
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
$\infty$537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",

"X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}

# Number of pages to scrape (you may need to adjust this based on the actual_
$\infty$number of pages)
num_pages = 6
```

```
# Context manager for creating a CSV file
      with open('Gurgaon_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
          writer = csv.writer(file)
          header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
       → 'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
       ⇔'Amenities', 'Region']
          writer.writerow(header)
          # Loop through pages and scrape data
          for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
              page_data = scrape_page(url, headers)
              for data_row in page_data:
                  data_row.append('Gurgaon')
                  writer.writerow(data_row)
[18]: # Dataframe creation
      df_gurgaon = pd.read_csv('Gurgaon_hotelData.csv')
      df_gurgaon
[18]:
                                                   Hotel Name \
      0
                                       Super OYO Hotel Samrat
      1
           POP Garden View Hotel And Restaurant Near Omax...
      2
                                Collection O Hotel Dev Villa
      3
                                            OYO Starlight Inn
      4
            Super OYO Collection O 1064 Tipsyy Inn Suites 17
      115
                                  OYO Flagship Jmd Residency
                                     Collection O The Habitat
      116
      117
                                 OYO Flagship Hotel Majestic
                           Collection O Green Leaf Residency
      118
      119
                                       OYO Welcome Residency
                                                    Location
                                                              Original Price \
      0
                       Near Bus Stand, Sadar Bazar, Gurgaon
                                                                        2522
      1
                                  Natcom Institute, Gurgaon
                                                                        2181
      2
                           Nearby Medanta Hospital, Gurgaon
                                                                        2669
      3
           G-563 Sushant Lok 2 Near Hongkong bazar, Gurgaon
                                                                        2426
      4
                Near GD Goenka University, Dhunela, Gurgaon
                                                                        2708
      115
                                           GURGAON , Gurgaon
                                                                        2372
      116
                  Near Medanta Hospital, Sector 38, Gurgaon
                                                                        3276
                             Nai Basti Sadar bazar, Gurgaon
      117
                                                                        2886
      118
             Near Artemis hospital, Mall fifty one, Gurgaon
                                                                        3882
      119
                 Near Maruti Suzuki, Noble Enclave, Gurgaon
                                                                        4559
           Discounted Price Discount User Rating
                                                                 Rating Summary \
```

```
75%
0
                  526
                                        4.2 4.2 (1952 Ratings) · Very Good
                           73%
1
                  495
                                        4.3
                                             4.3 (1432 Ratings) · Very Good
2
                  454
                           79%
                                              4.1 (151 Ratings) · Very Good
3
                  525
                            74%
                                        4.3
                                              4.3 (266 Ratings) · Very Good
4
                  767
                            66%
                                        4.3
                                              4.3 (192 Ratings) · Very Good
115
                           72%
                                                    3.2 (51 Ratings) · Fair
                  542
                                        3.2
116
                  868
                           69%
                                        4.0
                                               4.0 (23 Ratings) · Very Good
                                        3.7
                                                    3.7 (21 Ratings) · Good
117
                  583
                           75%
118
                           77%
                                                    3.8 (16 Ratings) · Good
                  721
                                        3.8
                            68%
                                               4.5 (77 Ratings) · Excellent
119
                 1232
                                        4.5
     Total Ratings
                                                           Tax
0
     1952 Ratings)
                    + 103 taxes & fees · per room per night
                     + 89 taxes & fees · per room per night
1
     1432 Ratings)
2
      151 Ratings)
                     + 95 taxes & fees · per room per night
3
      266 Ratings)
                    + 103 taxes & fees · per room per night
                    + 132 taxes & fees · per room per night
4
      192 Ratings)
       51 Ratings)
                    + 105 taxes & fees · per room per night
115
                    + 144 taxes & fees · per room per night
116
       23 Ratings)
                    + 110 taxes & fees · per room per night
117
       21 Ratings)
       16 Ratings)
                    + 137 taxes & fees · per room per night
118
                    + 188 taxes & fees · per room per night
119
       77 Ratings)
                                              Amenities
                                                          Region
         Reception Free Wifi Power backup + 16 more
0
                                                         Gurgaon
1
                 Elevator Free Wifi Geyser + 9 more
                                                          Gurgaon
2
             Free Wifi Geyser Power backup + 4 more
                                                         Gurgaon
3
             Free Wifi Geyser Power backup + 3 more
                                                         Gurgaon
4
      Parking facility Free Wifi Seating area + ... Gurgaon
. .
             Free Wifi Geyser Power backup + 4 more
115
                                                         Gurgaon
116
            Living Room Reception Balcony + 37 more
                                                         Gurgaon
             Free Wifi Geyser Power backup + 6 more
117
                                                          Gurgaon
118
              Elevator Reception Free Wifi
                                              + 8 more
                                                          Gurgaon
           Free Wifi Daily housekeeping AC + 1 more
119
                                                         Gurgaon
[120 rows x 11 columns]
```

7 Scraping Pune data

```
[19]: # OYO rooms base url

base_url = 'https://www.oyorooms.com/hotels-in-pune/'
headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/

$\inf$537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
```

```
"X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
      # Number of pages to scrape (you may need to adjust this based on the actual_
       →number of pages)
      num_pages = 9
      # Context manager for creating a CSV file
      with open('Pune hotelData.csv', 'w', newline='', encoding='UTF8') as file:
          writer = csv.writer(file)
          header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price', L
       → 'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
       ⇔'Amenities', 'Region']
          writer.writerow(header)
          # Loop through pages and scrape data
          for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
              page_data = scrape_page(url, headers)
              for data_row in page_data:
                  data_row.append('Pune')
                  writer.writerow(data_row)
[20]: # Dataframe creation
      df_pune = pd.read_csv('Pune_hotelData.csv')
      df_pune
                                                                         Location \
[20]:
                                           Hotel Name
                     Super OYO Flagship Hotel Saiinn
                                                          Hinjewadi Phase 1, Pune
      0
      1
                              820312 Hotel Royal Inn
                                                          pimpri chinchiwad, Pune
      2
                                                                       Pune, Pune
                                Super OYO Sai Avenue
      3
           Super OYO Flagship Flagship Hotel Pioneer
                                                       Mohinder Ashok Singh, Pune
      4
                           Collection O White Castle
                                                               Maharashtra, Pune
                                                               India 411030, Pune
      175
                 OYO Collection O Hotel Gargi Deluxe
      176
                  Collection O Hotel Bliss Executive
                                                                     Haveli, Pune
      177
                                     OYO Royal Lodge
                                                              Post Phulgaon, Pune
      178
                                     OYO Wakad Villa
                                                                      Wakad, Pune
      179
                            OYO Flagship Laxmi Chowk
                                                                  Hinjewadi, Pune
           Original Price Discounted Price Discount User Rating \
                                         673
                                                              4.4
      0
                     2835
                                                  71%
      1
                     2268
                                         544
                                                  71%
                                                              4.2
                                                              4.5
      2
                     2914
                                         693
                                                  72%
      3
                     3382
                                         819
                                                  72%
                                                              4.3
      4
                     4853
                                         846
                                                  79%
                                                              3.7
                                                  72%
      175
                     5822
                                        1420
                                                              3.6
```

```
176
               4610
                                 1117
                                            72%
                                                        NEW
177
                                            71%
               3119
                                  745
                                                        NEW
178
               4368
                                  739
                                            79%
                                                        2.3
179
               3547
                                   860
                                            72%
                                                        3.0
                   Rating Summary Total Ratings
     4.4 (1292 Ratings) · Very Good
                                  1292 Ratings)
0
       4.2 (45 Ratings) · Very Good
1
                                     45 Ratings)
2
     4.5 (448 Ratings) · Excellent
                                     448 Ratings)
3
    4.3 (1418 Ratings) · Very Good
                                   1418 Ratings)
            3.7 (46 Ratings) · Good
4
                                     46 Ratings)
175
           3.6 (248 Ratings) · Good
                                     248 Ratings)
176
                              NaN
                                               /A
177
                              NaN
                                               /A
178
             2.3 (2 Ratings) · Fair
                                       2 Ratings)
179
            3.0 (33 Ratings) · Fair
                                      33 Ratings)
                                           Tax \
0
    + 121 taxes & fees · per room per night
    + 105 taxes & fees · per room per night
1
    + 123 taxes & fees · per room per night
    + 128 taxes & fees · per room per night
    + 131 taxes & fees · per room per night
    + 210 taxes & fees · per room per night
    + 174 taxes & fees · per room per night
177 + 129 taxes & fees · per room per night
    + 139 taxes & fees · per room per night
179 + 133 taxes & fees · per room per night
                                              Amenities Region
0
         Reception Caretaker Power backup + 22 more
                                                          Pune
1
             Free Wifi Geyser Power backup
                                             + 4 more
                                                          Pune
2
                 Elevator Free Wifi Geyser
                                                          Pune
                                               + 5 more
3
      Private entrance Reception Free Wifi
                                               + 14 ...
                                                        Pune
4
                                                AC TV
                                                          Pune
175
            Reception Free Wifi Caretaker + 15 more
                                                          Pune
176
                 Elevator Free Wifi Geyser + 4 more
                                                          Pune
177
             Free Wifi Geyser Power backup + 3 more
                                                          Pune
178
            Reception Free Wifi Caretaker + 11 more
                                                          Pune
179
      Private entrance Parking facility Reception...
```

[180 rows x 11 columns]

8 Scraping Noida data

```
[21]: # OYO rooms base url
      base_url = 'https://www.oyorooms.com/hotels-in-noida/'
      headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
       →537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                 "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
      # Number of pages to scrape (you may need to adjust this based on the actual \Box
       →number of pages)
      num pages = 11
      # Context manager for creating a CSV file
      with open('Noida_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
         writer = csv.writer(file)
         header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
       →'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
       writer.writerow(header)
          # Loop through pages and scrape data
         for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
             page_data = scrape_page(url, headers)
              for data_row in page_data:
                  data_row.append('Noida')
                  writer.writerow(data_row)
[22]: # Dataframe creation
      df_noida = pd.read_csv('Noida_hotelData.csv')
      df noida
[22]:
                                                  Hotel Name \
                                        OYO Hotel Green View
      0
      1
                        Super OYO Hotel Crosswinds Residency
      2
                            OYO Flagship 9339 Terrene Empire
      3
           Grand Empire Expressway Near Noida Sector 83 M...
      4
                                Townhouse 1123 DSR Classic
                                 Collection O Hotel Liv Inn
      215
                              OYO Collection O Hotel Sg Inn
     216
                                             OYO Red Velvet
     217
     218
                         Collection O Trihans Mantion Hotel
      219
                                      OYO Vishal Residency
                                                   Location Original Price \
     0
             Near Vansthali Public School, Sector 56, Noida
                                                                        3640
```

```
1
     Near Sapphire International School, Sector 71,...
                                                                  5654
2
                  Near Dainik Jagran, Sector 63, Noida
                                                                    2184
3
                   Near Supertech Emerald Court, Noida
                                                                    2442
4
       Near Mother Dairy, Sec 12 Plot No-H 101, Noida
                                                                    2565
                         NEAR TIGRI GOAL CHAKKAR, Noida
                                                                    5422
215
216
     Plot number - 24 A Knowledge park 3 Greater no...
                                                                 10794
217
                                  222 sector 63A, Noida
                                                                    5932
218
                                                                   10794
                                                 , Noida
219
                         A-6 sector 10 red light, Noida
                                                                    3974
     Discounted Price Discount User Rating
                                                           Rating Summary
0
                  412
                            86%
                                        4.3
                                               4.3 (16 Ratings) · Very Good
1
                 1537
                            68%
                                        4.4
                                              4.4 (28 Ratings) · Very Good
2
                  509
                            72%
                                              4.1 (24 Ratings) · Very Good
                                        4.1
3
                  653
                            68%
                                        3.5
                                                    3.5 (89 Ratings) · Good
4
                  758
                            64%
                                        4.2
                                             4.2 (139 Ratings) · Very Good
. .
                  •••
215
                            71%
                                        NEW
                                                                       NaN
                 1345
                 2966
                            68%
                                        4.0
                                              4.0 (12 Ratings) · Very Good
216
217
                 1299
                            74%
                                        3.4
                                                     3.4 (6 Ratings) · Fair
                                                    3.8 (20 Ratings) · Good
218
                 2662
                            72%
                                        3.8
219
                  958
                            71%
                                        NEW
                                                                       NaN
    Total Ratings
                                                          Tax \
0
      16 Ratings)
                   + 89 taxes & fees · per room per night
1
      28 Ratings)
                   + 224 taxes & fees · per room per night
2
                   + 101 taxes & fees · per room per night
      24 Ratings)
3
      89 Ratings)
                   + 108 taxes & fees · per room per night
     139 Ratings)
                   + 141 taxes & fees · per room per night
4
. .
215
               /A
                   + 201 taxes & fees · per room per night
                   + 396 taxes & fees · per room per night
216
      12 Ratings)
217
       6 Ratings)
                   + 196 taxes & fees · per room per night
218
                   + 360 taxes & fees · per room per night
      20 Ratings)
219
               /A
                   + 155 taxes & fees · per room per night
                                               Amenities Region
0
         Parking facility Free Wifi Geyser
                                               + 9 more Noida
1
         Parking facility Free Wifi Geyser
                                               + 9 more Noida
2
      Parking facility Reception Free Wifi + 12 ... Noida
3
      Parking facility Elevator Free Wifi + 8 more Noida
      Free Wifi Power backup Card payment + 10 more Noida
4
215
                 Elevator
                           Free Wifi
                                       Geyser
                                                + 5 more
                                                          Noida
                                                + 5 more
216
                 Elevator
                            Free Wifi
                                       Geyser
                                                          Noida
217
                 Elevator
                           Free Wifi
                                       Geyser
                                               + 5 more
```

```
218 Free Wifi Geyser Power backup + 4 more Noida
219 Elevator Free Wifi Geyser + 3 more Noida
[220 rows x 11 columns]
```

9 Scraping Ahmedabad data

```
[23]: # OYO rooms base url
      base_url = 'https://www.oyorooms.com/hotels-in-ahmedabad/'
      headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
       →537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                 "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
      # Number of pages to scrape (you may need to adjust this based on the actual \Box
       →number of pages)
      num_pages = 3
      # Context manager for creating a CSV file
      with open('Ahmedabad_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
          writer = csv.writer(file)
          header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
       →'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
       ⇔'Amenities','Region']
          writer.writerow(header)
          # Loop through pages and scrape data
          for page_num in range(1, num_pages + 1):
              url = f'{base_url}?page={page_num}'
              page data = scrape page(url, headers)
              for data_row in page_data:
                  data row.append('Ahmedabad')
                  writer.writerow(data_row)
```

```
[24]: # Dataframe creation
df_ahmedabad = pd.read_csv('Ahmedabad_hotelData.csv')
df_ahmedabad
```

```
[24]:
                                         Hotel Name \
                         Townhouse 165 Netaji Road
      0
      1
                     Collection O Hotel Green Park
      2
                     OYO Flagship Hotel The Heaven
                 Super OYO Townhouse 858 Hotel N Y
      3
      4
                            Collection O Greenwood
      5
                     Collection O Hotel Konark Inn
      6
                      Collection O Hotel Royal Inn
      7
                             OYO Hotel Westin Park
```

| 8 | OYO Hotel bhanu Villa |
|----|--|
| 9 | OYO Flagship Hotel Meet Palace |
| | |
| 10 | OYO Hotel Haari Jayati |
| 11 | Collection O Hotel Santro |
| 12 | Collection O Hotel Crystal Inn |
| 13 | OYO HOTEL KING VIEW |
| | |
| 14 | Collection O Hotel Govindam |
| 15 | Flagship Hotel Swell |
| 16 | OYO Vanya Palace |
| 17 | SPOT ON Hotel Sleep Inn |
| | - |
| 18 | Hotel Green Land |
| 19 | Collection O 1127 Hotel Metro INN |
| 20 | Collection O Hotel Relax Inn |
| 21 | Collection O Hotel Raj Ratna |
| | _ |
| 22 | OYO Hotel Apsara Guest House |
| 23 | OYO Hotel Surya |
| 24 | Collection O Hotel Park View |
| 25 | OYO Home Hotel Skyland |
| 26 | • |
| | OYO Flagship 22477 Hotel Blue Moon |
| 27 | OYO SilverKey C3 Celebration City Centre |
| 28 | Super OYO Townhouse 190 Rajyash Rise |
| 29 | OYO Flagship Hotel A1 |
| 30 | Capital O Hotel Kalash Residency |
| | - · · · · · · · · · · · · · · · · · · · |
| 31 | Collection O Hotel Green Valley |
| 32 | Flagship Hotel Bharosa |
| 33 | OYO HOTEL AMBICA |
| 34 | Flagship Hotel Navjivan |
| 35 | Collection O Hotel Raj Palace |
| | - |
| 36 | OYO Flagship Hotel Reet Villa |
| 37 | OYO Vibrant Residency |
| 38 | Flagship Hotel Rudra Palace |
| 39 | Collection O Hotel Paris |
| | Collection O Hotel KP |
| 40 | |
| 41 | Super OYO Hotel Namaste inn |
| 42 | OYO Hotel NEW View |
| 43 | Townhouse 812 Hotel The Grand White |
| 44 | OYO Hotel Kanchan Palace |
| | |
| 45 | OYO Flagship Hotel Himalaya Inn |
| 46 | Collection O Hotel Alpha One |
| 47 | Collection O Hotel Paradise |
| 48 | Flagship Hotel Bhavy |
| 49 | Capital O Hotel Maple View |
| | - |
| 50 | Collection O Hotel Geetanjali |
| 51 | Super OYO Hotel Vishala Inn |
| 52 | Collection O Greenwood |
| 53 | OYO Hotel Liberty |
| | • |
| 54 | OYO Hotel Jasraj |

| 55 | OYO Flagship Hotel Raj | | |
|----------|---|------------------------|---|
| 56 | 3 BY OYO Nami Residency Ahmedabad | | |
| 57 | Collection O Hotel Kyra | | |
| 58 | OYO Flagship Hotel Amber | | |
| 59 | OYO Hotel R S Palace | | |
| | • | 0 | , |
| ^ | | Original Price 4830 | \ |
| 0 1 | Nr Paldi cross Road, Paldi, Ahmedabad | 3640 | |
| 2 | Behrampura, Ahmedabad Ahmedabad. Nana chiloda, Ahmedabad | 3093 | |
| 3 | Gota, Ahmedabad | 4414 | |
| 4 | Near Income Tax Circle, Ashram Road, Ahmedabad | 7525 | |
| 5 | , Ahmedabad | 2540 | |
| 6 | Behrampura, Ahmedabad | 4351 | |
| 7 | Gota, Ahmedabad | 3640 | |
| 8 | Navrangpura, Ahmedabad | 3237 | |
| 9 | Vastrapur Road, Ahmedabad | 3276 | |
| 10 | Lala Lajpat Rai Marg, Ahmedabad | 3094 | |
| 11 | Telephone Exchange Road, Makarpura, Ahmedabad | 3113 | |
| 12 | Opposite Cosmos Bank, Ahmedabad | 3134 | |
| 13 | 380009Inside city, Ahmedabad | 3276 | |
| 14 | Sola Rd Ghatlodiya, Ahmedabad | 3276 | |
| 15 | 4th floor, Smitdhara complex center, Opp. Hero | 3225 | |
| 16 | Odhav, Ahmedabad | 2784 | |
| 17 | Ghodasar Char Rasta, Ahmedabad | 3397 | |
| 18 | Near Shivranjani rasta, Akshar Complex, Ahmedabad | 3398 | |
| 19 | Near Shell Petrol Pump, Jivaraj Park, Ahmedabad | 3818 | |
| 20 | , Ahmedabad | 3591 | |
| 21 | Ashram Road, Ahmedabad | 3189 | |
| 22 | Kathwada, Ahmedabad | 2140 | |
| 23 | Kalupur, Ahmedabad | 5445 | |
| 24 | , Ahmedabad | 4475 | |
| 25 | 5th Floor, Bhavya Shopping Complex, Opp- Govt | 4395 | |
| 26 27 | Near Railway Station, Bapu Nagar, Ahmedabad Near Bopal Police Station, Ahmedabad | 4177 6188 | |
| 28 | South Vasna, Ahmedabad | 6817 | |
| 29 | Near Swastik Cross road, Navrangpura, Ahmedabad | 3082 | |
| 30 | Centrally Located, Near Mithakali Six Road, Vi | 3918 | |
| 31 | Ahmedabad, Ahmedabad | 3599 | |
| 32 | 2nd Floor, Jahnvi Arcade, Odhav Cross road, Od | 4125 | |
| 33 | Drive In Road, Ahmedabad | 3237 | |
| 34 | Near Shraddha Complex, Govind Vadi, Ahmedabad | 3640 | |
| 35 | Sola, Ahmedabad | 3882 | |
| 36 | Navrangpura, Ahmedabad | 4651 | |
| 37 | Near Vaibhav Laxmi Temple, Thaltej, Ahmedabad | 4225 | |
| 38 | B S G Highway, Ahmedabad | 3455 | |
| 39 | S.G.Highway, Ahmedabad | 3899 | |
| | | | |

| 40 | | Na [.] | vrangpura, | Ahmedabad | l 2645 | |
|----|----------------------|-------------------------|-------------|-----------|-----------------------|---|
| 41 | sahjanad complex shi | | | | 3738 | |
| 42 | 402 4th floorsigma | | | • | 3887 | |
| 43 | 102 10H 11001818Md 1 | 118001 1111 | | Ahmedabad | | |
| 44 | Noor Ahmodohod | Pailman C | | | | |
| | Near Ahmedabad | naliway 5 | | | | |
| 45 | | n. n | Memnagar, | | | |
| 46 | | • | ad Circle, | | | |
| 47 | Near Chaman Na | agar Socie | • | | | |
| 48 | | | Ambawadi, | Ahmedabad | l 3577 | |
| 49 | | Ahmedabad | District, | Ahmedabad | 2502 | |
| 50 | Near Odhav Chowko | di, Nilkan [.] | th Avenue, | Ahmedabad | l 5257 | |
| 51 | nr torrent power sta | ation Thak | karbapanaga | ar, Ahm | 3812 | |
| 52 | Near Income Tax C | ircle, Ash | ram Road, | Ahmedabad | 7525 | |
| 53 | | | Six Road, | | | |
| 54 | above goldy pan opp | | - | | 4392 | |
| 55 | Near New Cloth | _ | | | | |
| | | | | | | |
| 56 | Near Vs Hosp | | - | | | |
| 57 | Near Indira Bridge (| | - | _ | 6769 | |
| 58 | | | hial Road, | | | |
| 59 | Nav | rangpura . | Ahmedabad, | Ahmedabad | 3912 | |
| | | | | | | |
| | Discounted Price Dis | scount Us | er Rating | | Rating Summary | ١ |
| 0 | 921 | 77% | 3.9 | 3.9 | (602 Ratings) · Good | |
| 1 | 772 | 75% | 4.0 | 4.0 (396 | Ratings) · Very Good | |
| 2 | 640 | 75% | 4.4 | | Ratings) · Very Good | |
| 3 | 966 | 74% | 4.0 | | Ratings) · Very Good | |
| 4 | 1846 | 72% | 3.6 | | G (73 Ratings) · Good | |
| 5 | 544 | 74% | 4.1 | | Ratings) · Very Good | |
| 6 | 1052 | 72% | 3.5 | | (80 Ratings) · Good | |
| | | | | | • | |
| 7 | 715 | 76% | 4.0 | | Ratings) · Very Good | |
| 8 | 773 | 72% | 4.8 | | Ratings) · Excellent | |
| 9 | 773 | 72% | 4.8 | | Ratings) · Excellent | |
| 10 | 665 | 74% | 4.4 | | Ratings) · Very Good | |
| 11 | 656 | 75% | 5.0 | 5.0 (16 | Ratings)·Fabulous | |
| 12 | 748 | 71% | 3.7 | 3.7 | (54 Ratings) · Good | |
| 13 | 745 | 73% | 4.6 | 4.6 (4 | Ratings) · Excellent | |
| 14 | 553 | 80% | 4.0 | 4.0 (7 | Ratings) · Very Good | |
| 15 | 677 | 75% | 4.0 | 4.0 (65 | Ratings) · Very Good | |
| 16 | 660 | 72% | 3.9 | | 9 (5 Ratings) · Good | |
| 17 | 752 | 74% | 3.8 | | 3 (24 Ratings) · Good | |
| 18 | 787 | 71% | 3.8 | | (290 Ratings) · Good | |
| 19 | 918 | 71% 72% | 3.7 | | (207 Ratings) · Good | |
| | 873 | | | | • | |
| 20 | | 71% | 4.4 | | Ratings) · Very Good | |
| 21 | 762 | 72% | 3.9 | | (57 Ratings) · Good | |
| 22 | 499 | 72% | 3.4 | | (54 Ratings) · Fair | |
| 23 | 1162 | 74% | 4.1 | | Ratings) · Very Good | |
| 24 | 971 | 74% | 3.9 | 3.9 | (96 Ratings) · Good | |
| | | | | | | |

```
25
                  1063
                             71%
                                            4.6
                                                 4.6 (230 Ratings) · Excellent
26
                   913
                             74%
                                            3.8
                                                       3.8 (100 Ratings) · Good
27
                  1124
                             79%
                                            4.2
                                                 4.2 (358 Ratings) · Very Good
                                                 4.1 (366 Ratings) · Very Good
28
                  1660
                             72%
                                            4.1
29
                   735
                             72%
                                            3.4
                                                        3.4 (72 Ratings) · Fair
30
                   881
                             73%
                                            3.9
                                                        3.9 (86 Ratings) · Good
31
                   965
                             68%
                                            4.0
                                                  4.0 (13 Ratings) · Very Good
32
                   758
                             78%
                                            3.5
                                                         3.5 (7 Ratings) · Good
33
                   773
                             72%
                                            4.2
                                                   4.2 (5 Ratings) · Very Good
34
                   805
                             74%
                                            3.7
                                                        3.7 (64 Ratings) · Good
35
                   809
                             75%
                                            3.9
                                                        3.9 (21 Ratings) · Good
36
                  1011
                             74%
                                            4.4
                                                  4.4 (39 Ratings) · Very Good
37
                  1130
                             68%
                                            3.7
                                                       3.7 (183 Ratings) · Good
38
                   715
                             74%
                                            3.2
                                                        3.2 (97 Ratings) · Fair
                   939
39
                             71%
                                            5.0
                                                     5.0 (5 Ratings) · Fabulous
40
                   626
                             71%
                                            2.7
                                                        2.7 (16 Ratings) · Fair
                   901
                             71%
                                            3.9
41
                                                        3.9 (27 Ratings) · Good
42
                   936
                             72%
                                            4.1
                                                  4.1 (12 Ratings) · Very Good
43
                                            4.1
                  1026
                             71%
                                                 4.1 (325 Ratings) · Very Good
44
                   696
                             62%
                                            3.2
                                                       3.2 (392 Ratings) · Fair
45
                   788
                             72%
                                            3.3
                                                        3.3 (63 Ratings) · Fair
46
                             68%
                                                 4.1 (172 Ratings) · Very Good
                  1522
                                            4.1
47
                   892
                             71%
                                            3.4
                                                        3.4 (16 Ratings) · Fair
48
                   778
                             74%
                                                        3.8 (39 Ratings) · Good
                                            3.8
49
                   599
                             71%
                                            3.2
                                                        3.2 (57 Ratings) · Fair
50
                  1147
                             74%
                                            3.3
                                                        3.3 (24 Ratings) · Fair
51
                  1025
                             68%
                                            4.3
                                                  4.3 (27 Ratings) · Very Good
52
                  1846
                             72%
                                            3.6
                                                        3.6 (73 Ratings) · Good
53
                  1046
                             68%
                                            3.7
                                                       3.7 (146 Ratings) · Good
                   499
                             86%
                                            2.1
54
                                                        2.1 (13 Ratings) · Fair
55
                  1171
                             74%
                                                       3.3 (104 Ratings) · Fair
                                            3.3
                             45%
56
                  2857
                                            4.6
                                                 4.6 (517 Ratings) · Excellent
57
                             81%
                                            3.5
                                                        3.5 (28 Ratings) · Good
                  1071
58
                   999
                             71%
                                            4.4
                                                   4.4 (4 Ratings) · Very Good
59
                  1026
                             68%
                                            3.5
                                                        3.5 (68 Ratings) · Good
```

Total Ratings Tax 0 602 Ratings) + 181 taxes & fees · per room per night 1 396 Ratings) + 133 taxes & fees · per room per night 2 18 Ratings) 117 taxes & fees · per room per night 3 586 Ratings) 156 taxes & fees · per room per night 73 Ratings) 4 + 261 taxes & fees · per room per night 5 31 Ratings) + 105 taxes & fees · per room per night 6 80 Ratings) 166 taxes & fees · per room per night 7 28 Ratings) + 126 taxes & fees · per room per night 8 + 133 taxes & fees · per room per night 58 Ratings) 9 12 Ratings) + 133 taxes & fees · per room per night

```
10
     48 Ratings)
                 + 120 taxes & fees · per room per night
11
     16 Ratings)
                 + 119 taxes & fees · per room per night
12
    54 Ratings)
                 + 130 taxes & fees · per room per night
13
     4 Ratings)
                 + 129 taxes & fees · per room per night
14
                 + 96 taxes & fees · per room per night
     7 Ratings)
15
    65 Ratings)
                 + 121 taxes & fees · per room per night
16
                  + 109 taxes & fees · per room per night
     5 Ratings)
17
     24 Ratings)
                 + 130 taxes & fees · per room per night
                 + 165 taxes & fees · per room per night
18
    290 Ratings)
19
    207 Ratings)
                 + 150 taxes & fees · per room per night
20
                 + 145 taxes & fees · per room per night
     5 Ratings)
21
     57 Ratings)
                 + 131 taxes & fees · per room per night
22
    54 Ratings)
                 + 100 taxes & fees · per room per night
23
   158 Ratings)
                  + 210 taxes & fees · per room per night
24
    96 Ratings)
                  + 157 taxes & fees · per room per night
25
    230 Ratings)
                 + 168 taxes & fees · per room per night
26
    100 Ratings)
                  + 140 taxes & fees · per room per night
27
                  + 175 taxes & fees · per room per night
    358 Ratings)
28
    366 Ratings)
                 + 249 taxes & fees · per room per night
29
                 + 128 taxes & fees · per room per night
    72 Ratings)
30
    86 Ratings)
                  + 156 taxes & fees · per room per night
31
    13 Ratings)
                 + 156 taxes & fees · per room per night
32
                 + 121 taxes & fees · per room per night
     7 Ratings)
33
     5 Ratings)
                 + 133 taxes & fees · per room per night
34
                  + 127 taxes & fees · per room per night
    64 Ratings)
35
    21 Ratings)
                  + 127 taxes & fees · per room per night
     39 Ratings)
                 + 161 taxes & fees · per room per night
36
37
                  + 186 taxes & fees · per room per night
    183 Ratings)
38
    97 Ratings)
                 + 156 taxes & fees · per room per night
39
     5 Ratings)
                 + 153 taxes & fees · per room per night
40
    16 Ratings)
                 + 115 taxes & fees · per room per night
41
    27 Ratings)
                  + 148 taxes & fees · per room per night
42
     12 Ratings)
                  + 152 taxes & fees · per room per night
43
    325 Ratings)
                 + 193 taxes & fees · per room per night
44
                  + 124 taxes & fees · per room per night
    392 Ratings)
45
    63 Ratings)
                 + 135 taxes & fees · per room per night
                 + 223 taxes & fees · per room per night
46
   172 Ratings)
47
    16 Ratings)
                 + 147 taxes & fees · per room per night
48
    39 Ratings)
                  + 123 taxes & fees · per room per night
49
    57 Ratings)
                  + 102 taxes & fees · per room per night
50
                 + 178 taxes & fees · per room per night
    24 Ratings)
51
    27 Ratings)
                  + 163 taxes & fees · per room per night
52
                 + 261 taxes & fees · per room per night
    73 Ratings)
53
   146 Ratings)
                 + 155 taxes & fees · per room per night
54
    13 Ratings)
                 + 100 taxes & fees · per room per night
55
    104 Ratings) + 180 taxes & fees · per room per night
   517 Ratings) + 443 taxes & fees · per room per night
```

```
4 Ratings) + 150 taxes & fees · per room per night
58
59
    68 Ratings) + 193 taxes & fees · per room per night
                                           Amenities
                                                        Region
    Private entrance Parking facility Reception... Ahmedabad
0
1
           Free Wifi Geyser Power backup + 3 more
                                                     Ahmedabad
2
         Free Wifi Daily housekeeping AC + 1 more
                                                     Ahmedabad
3
      Doctor on call Reception Security + 32 more
                                                     Ahmedabad
4
    Private entrance Parking facility Reception... Ahmedabad
               Elevator Free Wifi Geyser + 5 more
5
                                                     Ahmedabad
6
               Elevator Free Wifi Geyser + 5 more
                                                     Ahmedabad
7
           Free Wifi Geyser Power backup + 3 more
                                                     Ahmedabad
                                                     Ahmedabad
8
               Elevator Free Wifi Geyser + 4 more
9
               Elevator Free Wifi Geyser
                                          + 4 more
                                                     Ahmedabad
10
               Elevator Free Wifi Geyser + 4 more
                                                     Ahmedabad
       Reception Free Wifi Power backup + 10 more
11
                                                     Ahmedabad
        Reception Power backup Security + 24 more
12
                                                     Ahmedabad
13
               Elevator Free Wifi Geyser + 5 more
                                                     Ahmedabad
14
                                                TV
                                             AC
                                                     Ahmedabad
15
               Elevator Free Wifi Geyser + 8 more
                                                     Ahmedabad
    Parking facility Reception Free Wifi
                                           + 12 ... Ahmedabad
16
17
               Elevator Free Wifi Geyser + 4 more Ahmedabad
18
     Free Wifi Geyser Daily housekeeping + 4 more Ahmedabad
19
    Parking facility Free Wifi Power backup + ... Ahmedabad
20
           Free Wifi Geyser Power backup + 2 more
                                                     Ahmedabad
21
               Elevator Free Wifi Geyser + 4 more
                                                     Ahmedabad
22
        Reception Free Wifi CCTV cameras + 3 more
                                                     Ahmedabad
23
         Free Wifi Daily housekeeping AC
                                           + 8 more
                                                     Ahmedabad
24
               Elevator Free Wifi Geyser
                                           + 5 more Ahmedabad
25
                                                TV
                                             AC
                                                     Ahmedabad
26
    Parking facility Reception Free Wifi + 15 ... Ahmedabad
27
              Reception Free Wifi Geyser + 9 more
    Parking facility Reception Free Wifi + 20 ... Ahmedabad
28
29
    Private entrance Parking facility Reception... Ahmedabad
30
               Elevator Free Wifi Geyser + 6 more Ahmedabad
31
               Elevator Free Wifi Geyser + 3 more
                                                    Ahmedabad
    Parking facility Reception Free Wifi + 18 ...
32
                                                   Ahmedabad
33
               Elevator Free Wifi Geyser + 4 more Ahmedabad
34
    Doctor on call Parking facility Reception ...
                                                   Ahmedabad
35
                                             AC
                                                TV
                                                     Ahmedabad
36
         Free Wifi Daily housekeeping AC + 1 more
                                                     Ahmedabad
37
              Free Wifi Card payment TV + 16 more
                                                     Ahmedabad
38
    Reception Free Wifi Bedside Table / Desk +... Ahmedabad
39
               Elevator Free Wifi Geyser + 4 more
                                                     Ahmedabad
40
               Elevator Free Wifi Geyser + 4 more
                                                     Ahmedabad
41
               Elevator Free Wifi Geyser + 5 more
                                                     Ahmedabad
```

28 Ratings) + 169 taxes & fees · per room per night

57

```
42
           Free Wifi Geyser Power backup + 2 more Ahmedabad
43
    Reception Ticket tour assistance Public was... Ahmedabad
44
                  Twin Single Bed AC TV + 26 more
                                                    Ahmedabad
45
           Free Wifi Geyser Power backup + 4 more
                                                    Ahmedabad
46
               Elevator Free Wifi Geyser + 5 more Ahmedabad
47
    Parking facility Reception Free Wifi + 17 ... Ahmedabad
48
    Reception Ticket tour assistance Power back... Ahmedabad
49
    Parking facility Reception Free Wifi + 16 ... Ahmedabad
50
         Free Wifi Daily housekeeping AC + 1 more Ahmedabad
51
               Elevator Free Wifi Geyser + 4 more Ahmedabad
52
    Private entrance Parking facility Reception... Ahmedabad
53
         Free Wifi AC Daily housekeeping + 5 more Ahmedabad
54
           Free Wifi Geyser Power backup + 3 more Ahmedabad
55
               Elevator Free Wifi Geyser + 5 more
                                                    Ahmedabad
56
        Reception Bath Tub Power backup + 68 more
                                                    Ahmedabad
57
    Parking facility Reception Free Wifi + 15 ... Ahmedabad
58
                                            AC TV
                                                    Ahmedabad
59
    Cutlery/crockery Free Wifi Daily housekeepi... Ahmedabad
```

10 Scraping Jaipur data

```
[25]: # OYO rooms base url
     base_url = 'https://www.oyorooms.com/hotels-in-jaipur/'
     headers = {"User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/
       →537.36 (KHTML, like Gecko) Chrome/108.0.0.0 Safari/537.36",
                "X-Amzn-Trace-Id": "Root=1-63956ce4-077f2bd27750e28d3db65397"}
      # Number of pages to scrape (you may need to adjust this based on the actual,
      →number of pages)
     num_pages = 11
      # Context manager for creating a CSV file
     with open('Jaipur_hotelData.csv', 'w', newline='', encoding='UTF8') as file:
         writer = csv.writer(file)
         header = ['Hotel Name', 'Location', 'Original Price', 'Discounted Price',
       → 'Discount', 'User Rating', 'Rating Summary', 'Total Ratings', 'Tax', □
       writer.writerow(header)
          # Loop through pages and scrape data
         for page_num in range(1, num_pages + 1):
             url = f'{base_url}?page={page_num}'
             page_data = scrape_page(url, headers)
             for data row in page data:
                 data_row.append('Jaipur')
                 writer.writerow(data row)
```

```
[26]: # Dataframe creation
      df_jaipur = pd.read_csv('Jaipur_hotelData.csv')
      df_jaipur
[26]:
                                              Hotel Name
                             OYO Flagship Ahinsha Cicle
      0
                            OYO Townhouse 632 Pisto Inn
      1
      2
                         Collection O Hotel Salasar Inn
      3
                      Collection O Hotel Sanjay Palace
      4
                      Collection O Hotel Krishana stays
      215
                                         OYO Hotel Kenin
      216
                                 OYO Hotel Shyam Palace
      217
                            OYO Flagship Hotel Ganesham
      218
                                            OYO KK Hotel
           Super OYO Palette - Pentagon Boutique Hotel
                                                 Location
                                                            Original Price \
      0
                                         C Scheme, Jaipur
                                                                      3251
      1
                                        Jagatpura, Jaipur
                                                                      3619
      2
                     J P Colony Imli Wala Phatak, Jaipur
                                                                      3214
                        Near Polo Victory Cinema, Jaipur
      3
                                                                      2839
                         Opp Polo Victory Cinema, Jaipur
      4
                                                                      3564
      . .
      215
                                         Sector-3, Jaipur
                                                                      2184
      216
                                           Jaipur, Jaipur
                                                                      2909
      217
                Near NWR Headquarter, Jagatpura, Jaipur
                                                                      3067
           Near Narayana hospital roadsector 10, Jaipur
      218
                                                                      2881
      219
                                  Vaishali Nagar, Jaipur
                                                                      3628
           Discounted Price Discount User Rating
                                                                   Rating Summary
                                                    4.1 (1853 Ratings) · Very Good
      0
                         768
                                  72%
                                               4.1
      1
                         874
                                  71%
                                                     4.0 (434 Ratings) · Very Good
                                               4.0
                                  74%
                                                     4.4 (356 Ratings) · Very Good
      2
                         687
                                               4.4
      3
                         674
                                  72%
                                               4.7
                                                     4.7 (186 Ratings) · Excellent
      4
                                  74%
                                               4.5
                                                     4.5 (259 Ratings) · Excellent
                         766
                                  72%
      215
                         509
                                               NEW
                                                                               NaN
                                               NEW
      216
                         641
                                  73%
                                                                               NaN
      217
                         826
                                  68%
                                               3.5
                                                             3.5 (4 Ratings) · Good
                                  71%
                                               2.0
                                                             2.0 (1 Ratings) · Fair
      218
                         685
      219
                        1665
                                  47%
                                               4.0
                                                      4.0 (33 Ratings) · Very Good
           Total Ratings
                                                                  Tax
                                                                      \
      0
           1853 Ratings)
                           + 142 taxes & fees · per room per night
            434 Ratings)
      1
                          + 165 taxes & fees · per room per night
                          + 123 taxes & fees · per room per night
            356 Ratings)
```

```
3
      186 Ratings) + 121 taxes & fees · per room per night
      259 Ratings) + 132 taxes & fees · per room per night
4
215
                  + 101 taxes & fees · per room per night
216
                /A + 117 taxes & fees · per room per night
        4 Ratings) + 129 taxes & fees · per room per night
217
218
        1 Ratings) + 122 taxes & fees · per room per night
219
       33 Ratings) + 240 taxes & fees · per room per night
                                            Amenities Region
0
      Parking facility Reception Free Wifi + 16 ... Jaipur
1
      Doctor on call Reception Public washroom +... Jaipur
                Elevator Free Wifi Geyser + 5 more
3
            Reception Free Wifi Caretaker + 12 more
                                                       Jaipur
4
                Elevator Free Wifi Geyser + 5 more
                                                       Jaipur
215
            Free Wifi Geyser Power backup
                                             + 3 more
                                                       Jaipur
                Elevator Free Wifi Geyser
216
                                            + 4 more
                                                       Jaipur
217
                                                       Jaipur
                                              AC TV
218
                Elevator Free Wifi Geyser
                                            + 4 more
                                                       Jaipur
219
                      Free Wifi Geyser AC + 5 more
                                                       Jaipur
[220 rows x 11 columns]
```

11 Combining all the data frames

```
[27]:

Hotel Name \
0 Flagship Tambaram
1 Collection O Tranquil Nest
2 OYO Flagship Elite Residency
3 Collection O The Oaks Residency
4 Townhouse 1248 Majestic Inn
```

```
1955
                                    OYO Hotel Kenin
1956
                            OYO Hotel Shyam Palace
1957
                       OYO Flagship Hotel Ganesham
1958
                                       OYO KK Hotel
1959
      Super OYO Palette - Pentagon Boutique Hotel
                                               Location
                                                         Original Price \
      Near Tambaram Railwaystation, Tambaram, Chennai
0
                                                                    2833
1
                                 Pallikaranai, Chennai
                                                                    2474
2
                                  Rajan Nagar, Chennai
                                                                    2333
3
          Dental Collage, Kamakotti Nagar, Pallikaranai
                                                                    3282
4
                     Viveks Showroom Backside, Chennai
                                                                    5258
1955
                                       Sector-3, Jaipur
                                                                    2184
1956
                                         Jaipur, Jaipur
                                                                    2909
1957
              Near NWR Headquarter, Jagatpura, Jaipur
                                                                    3067
         Near Narayana hospital roadsector 10, Jaipur
1958
                                                                    2881
1959
                                Vaishali Nagar, Jaipur
                                                                    3628
      Discounted Price Discount User Rating
                                                              Rating Summary
0
                                               4.2 (1015 Ratings) · Very Good
                    591
                             75%
                                          4.2
1
                    499
                             75%
                                                       3.3 (10 Ratings) · Fair
                                          3.3
2
                                                4.6 (198 Ratings) · Excellent
                    479
                             75%
                                          4.6
3
                                                4.1 (776 Ratings) · Very Good
                    421
                             84%
                                          4.1
4
                   1279
                             72%
                                          4.7
                                                4.7 (925 Ratings) · Excellent
1955
                    509
                             72%
                                          NEW
                                                                         NaN
1956
                    641
                             73%
                                          NEW
                                                                          NaN
1957
                    826
                             68%
                                          3.5
                                                       3.5 (4 Ratings) · Good
                                                        2.0 (1 Ratings) · Fair
1958
                    685
                             71%
                                          2.0
1959
                   1665
                             47%
                                          4.0
                                                 4.0 (33 Ratings) · Very Good
      Total Ratings
                                                             Tax
0
                      + 111 taxes & fees · per room per night
      1015 Ratings)
1
        10 Ratings)
                      + 100 taxes & fees · per room per night
2
                       + 97 taxes & fees · per room per night
       198 Ratings)
3
       776 Ratings)
                       + 90 taxes & fees · per room per night
4
       925 Ratings)
                      + 193 taxes & fees · per room per night
1955
                  /A + 101 taxes & fees · per room per night
1956
                     + 117 taxes & fees · per room per night
1957
                     + 129 taxes & fees · per room per night
         4 Ratings)
1958
         1 Ratings)
                     + 122 taxes & fees · per room per night
        33 Ratings) + 240 taxes & fees · per room per night
1959
```

Amenities Region

```
0
       Free Wifi Geyser Daily housekeeping + 2 more Chennai
      Parking facility Reception Free Wifi + 15 ... Chennai
1
2
                 Elevator Free Wifi Geyser + 5 more Chennai
3
      Doctor on call Reception Ticket tour assist... Chennai
4
                 Elevator Free Wifi Geyser
                                            + 5 more Chennai
1955
             Free Wifi Geyser Power backup + 3 more
                                                       Jaipur
1956
                 Elevator Free Wifi Geyser + 4 more
                                                       Jaipur
                                                       Jaipur
1957
                                              AC TV
1958
                 Elevator Free Wifi Geyser
                                            + 4 more
                                                       Jaipur
1959
                       Free Wifi Geyser AC + 5 more
                                                       Jaipur
```

[1960 rows x 11 columns]

```
[28]: unique_rows_count = combined_df.drop_duplicates().shape[0]
unique_rows_count
```

[28]: 1830

```
[31]: # Save the DataFrame to a CSV file combined_df.to_csv('C:/Users/Vasu/Documents/web scraping/new/ combined_weekday_final1_oyo.csv', index=False)
```

[]: