



INNOMATICS

RESEARCH LABS





OYO

Web Scrapping
&
Data Analysis
On
OYO HOTELS

<https://www.oyorooms.com/>



INNOMATICS
RESEARCH LABS

Team Members:

Name : Vengala Pranay

Qualification : B/E Mining Engineering

Name : Kommarajula Uday Kumar

Qualification : B/E Mining Engineering

Ppt (1).pptx - Microsoft PowerPo x oyo Hotels in Hyderabad Starting @ x +

oyorooms.com/search/?location=Hyderabad%2C%20Telangana%2C%20India&city=Hyderabad&searchType=city&coupon=&checkin=10%2F01%2F202...

oyo Hyderabad, Telangana, India Near me Fri, 28 Jan - Sat, 29 Jan 1 Room, 2 Guests Search EN Login / Signup

Please check the travel advisory issued by the concerned state government/local authorities before booking, as some places may have COVID-19 related travel/lodging restrictions.

Filters

Popular locations in Hyderabad, Telangana, India

Search..

Secunderabad Railway Station Gachibowli

Madhapur Ameerpet LB Nagar

+ View More

Price

₹649 ₹3294

Collections

- ☐ sanitised b4 ur eyes
- ☐ Vaccinated Staff
- ☐ Family OYO's
- ☐ For Group Travellers
- ☐ Local IDs accepted

+ View More

Categories

- ☐ OYO Rooms - Super affordable stays with essential amenities

420 OYO's in Hyderabad, Telangana, India

Map View Sort By Popularity

Earn ₹500
Create an account to get ₹500 as OYO Money

SPOT ON

Spot On 82337 Hotel Sri Vishnu Grand
Secunderabad, Hyderabad

4.9 ★ (28 Ratings) - Fabulous

Hair Dryer Reception Free Wifi + 14 more

₹949 ~~₹3024~~ 68% off
per room per night

[View Details](#) [Book Now](#)

FLAGSHIP

OYO Flagship 75243 Metro International
High Court, Hyderabad

4.3 ★ (921 Ratings) - Very Good

Parking Facility Reception Free Wifi + 11 more

WIZARD MEMBER Sanitised b4 ur eyes

₹949 ~~₹3897~~ 75% off
per room per night

[View Details](#) [Book Now](#)

1k+ people booked this OYO in last 6 months

About OYO

- In 2012, Ritesh Agarwal launched Oravel Stays to enable listing and booking of budget accommodations.

Later he renamed the firm to OYO in 2013.

OYO Rooms has a multi-brand approach.

These include:

- OYO Town House
- OYO Flag ship
- OYO Home
- Silverkey
- Spot on
- Capital O
- Pallete
- Collection O

WEB SCRAPING

- Web scraping is a term used to describe the use of a program or algorithm to extract and process large amounts of data from the web.
- Web scraping is the **process of using bots to extract content and data from a website**. Unlike screen scraping, which only copies pixels displayed onscreen, web scraping extracts underlying HTML code and, with it, data stored in a database. The scraper can then replicate entire website content elsewhere.
- **It is perfectly legal if you scrape data from websites for public consumption** and use it for analysis. However, it is not legal if you scrape confidential information for profit. For example, scraping private contact information without permission, and sell them to a 3rd party for profit is illegal.

DATA FRAME

	Hotel_name	Adress	Price	Original_price	Ratings	Discount
0	OYO Townhouse RCC Elite 265 Begumpet	Opp to Js babu silks., Hyderabad	₹1099	₹4095	4.6 (3088 Ratings)-Excellent	73% off
1	Capital O 71317 White Ridge	Near Khazana Jewellery, Dilsukhnagar, Hyderabad	₹1199	₹4989	4.6 (1930 Ratings)-Excellent	75% off
2	OYO Flagship 60834 Kaashyapasa Homes	hitech city MMTS, Hyderabad	₹1099	₹3088	4.4 (800 Ratings)-Very Good	64% off
3	OYO 49253 Raja Residency	Near Raja Deluxe Complex, Musheerabad, Hyderabad	₹1049	₹3148	4.5 (3722 Ratings)-Excellent	66% off
4	OYO Flagship 61858 Hotel Banyan Tree	Centrally Located, Near Huda Park, Kukatpally,...	₹1099	₹3272	4.6 (2825 Ratings)-Excellent	66% off
...
507	OYO Flagship 49925 Divi Heritage Inn	Indian Oil Bunk, Behind SM Hospital, Ooty	₹1778	₹3508	3.8 (45 Ratings)-Good	49% off
508	OYO 77682 Mohans Cottage	Lovedale Junction, Ooty	₹1741	₹4070	NEW	57% off
509	OYO 78121 Red Rock	Near Funcity, Ooty	₹1673	₹3938	4.3 (62 Ratings)-Very Good	57% off
510	OYO 78094 Cool Spot Cottage	Charing Cross, Ooty	₹1854	₹4163	3.8 (90 Ratings)-Good	55% off
511	OYO HOME 84637 Kirran Cottage	Nondimedu, Ooty	₹1327	₹2527	NEW	47% off

512 rows × 6 columns

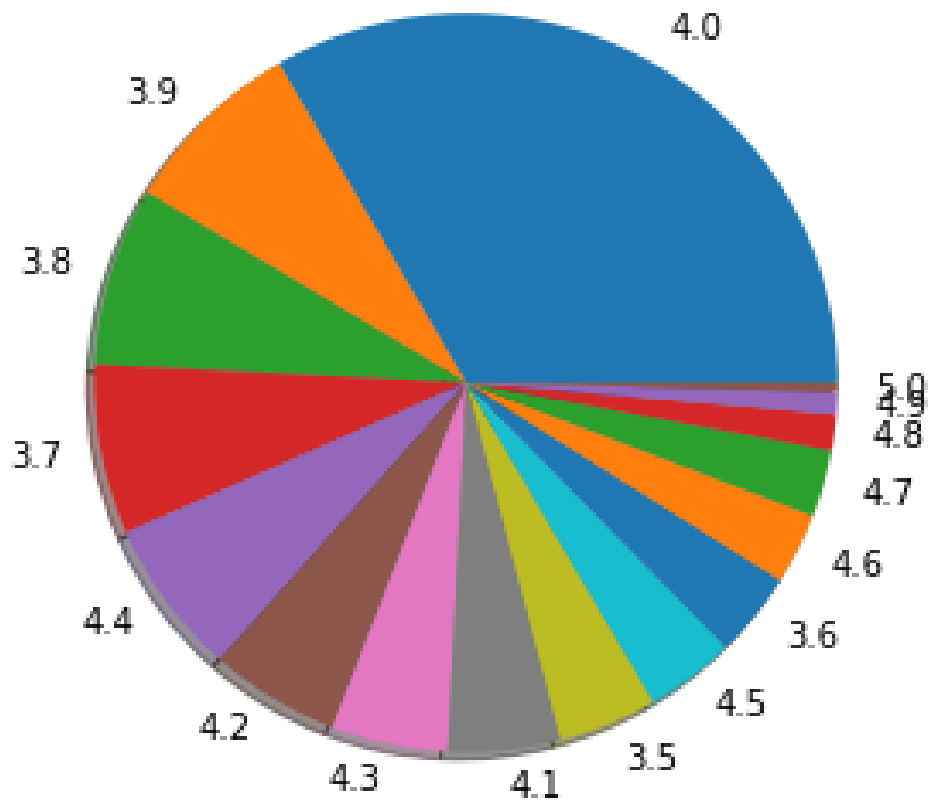
Data Frame After Cleaning

	Hotel_name	Price	Original_price	city	location	Area	Rating	Rating_summary	Price_Flucations	%_Discount
0	OYO Townhouse RCC Elite 265 Begumpet	1099	4095	Hyderabad	Opp to Js babu	265 Begumpet	4.6	Excellent	2996	73
1	Capital O 71317 White Ridge	1199	4989	Hyderabad	Near Khazana Jewellery	White Ridge	4.6	Excellent	3790	75
2	OYO Flagship 60834 Kaashyapasa Homes	1099	3088	Hyderabad	hitech city	Kaashyapasa Homes	4.4	Very Good	1989	64
3	OYO 49253 Raja Residency	1049	3148	Hyderabad	Near Raja Deluxe Complex	Raja Residency	4.5	Excellent	2099	66
4	OYO Flagship 61858 Hotel Banyan Tree	1099	3272	Hyderabad	Centrally Located Near Huda Park	Banyan Tree	4.6	Excellent	2173	66
...
507	OYO Flagship 49925 Divi Heritage Inn	1778	3508	Ooty	Indian Oil Bunk Behind SM	Heritage Inn	3.8	Good	1730	49
508	OYO 77682 Mohans Cottage	1741	4070	Ooty	Lovedale	Mohans Cottage	4.0	NEW	2329	57
509	OYO 78121 Red Rock	1673	3938	Ooty	Near	Red Rock	4.3	Very Good	2265	57
510	OYO 78094 Cool Spot Cottage	1854	4163	Ooty	Charing	Spot Cottage	3.8	Good	2309	55
511	OYO HOME 84637 Kirran Cottage	1327	2527	Ooty		Kirran Cottage	4.0	NEW	1200	47

512 rows × 10 columns

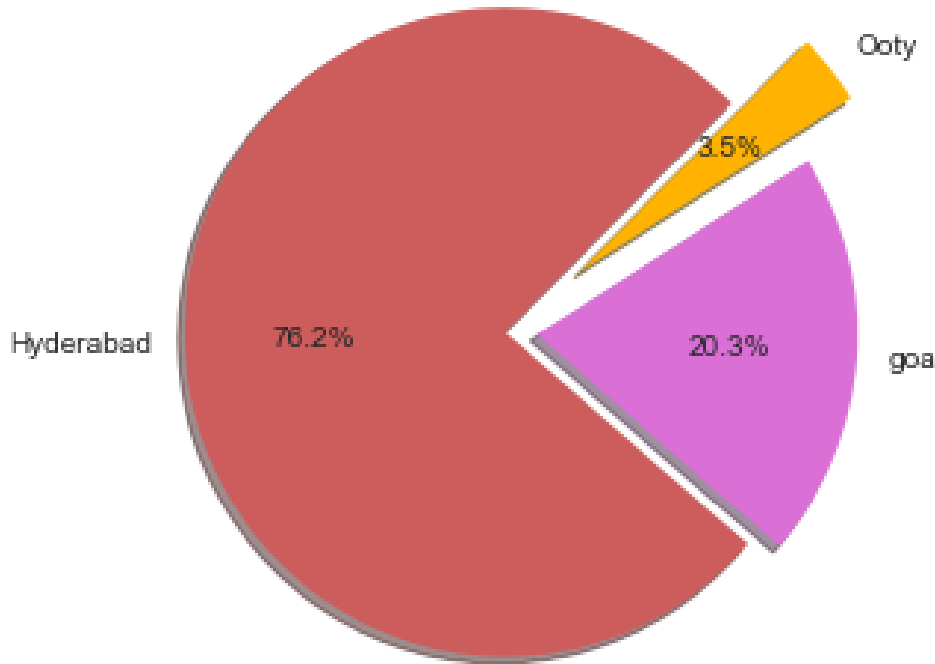
Data Visualization



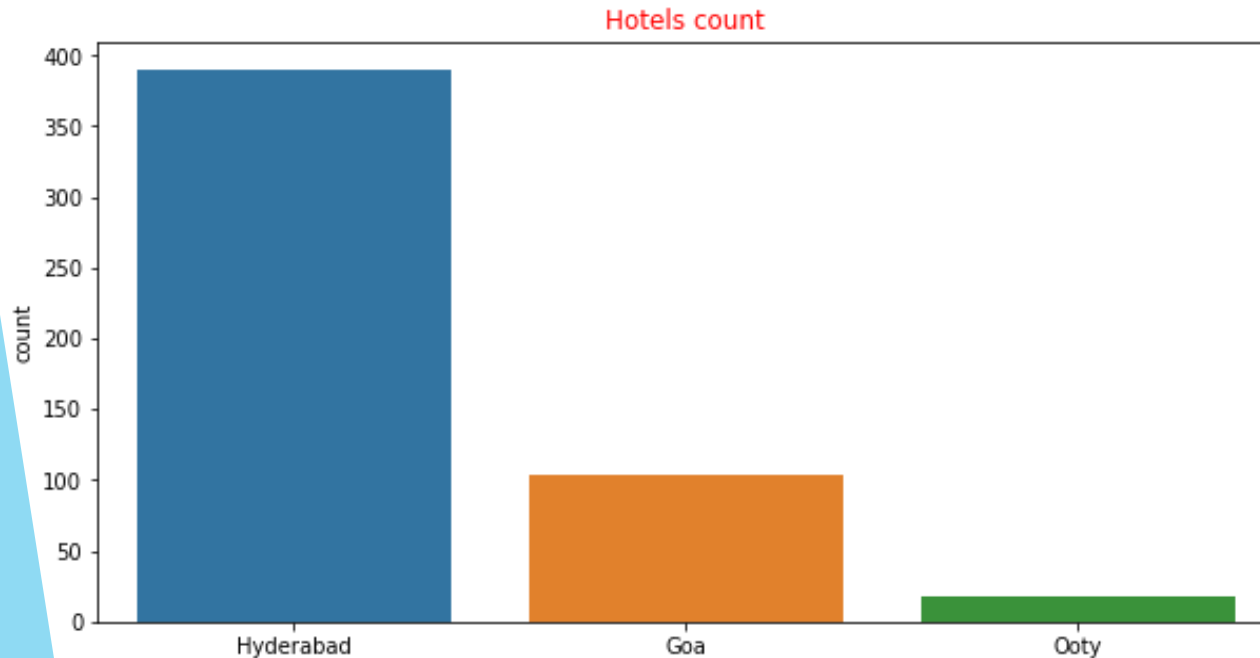
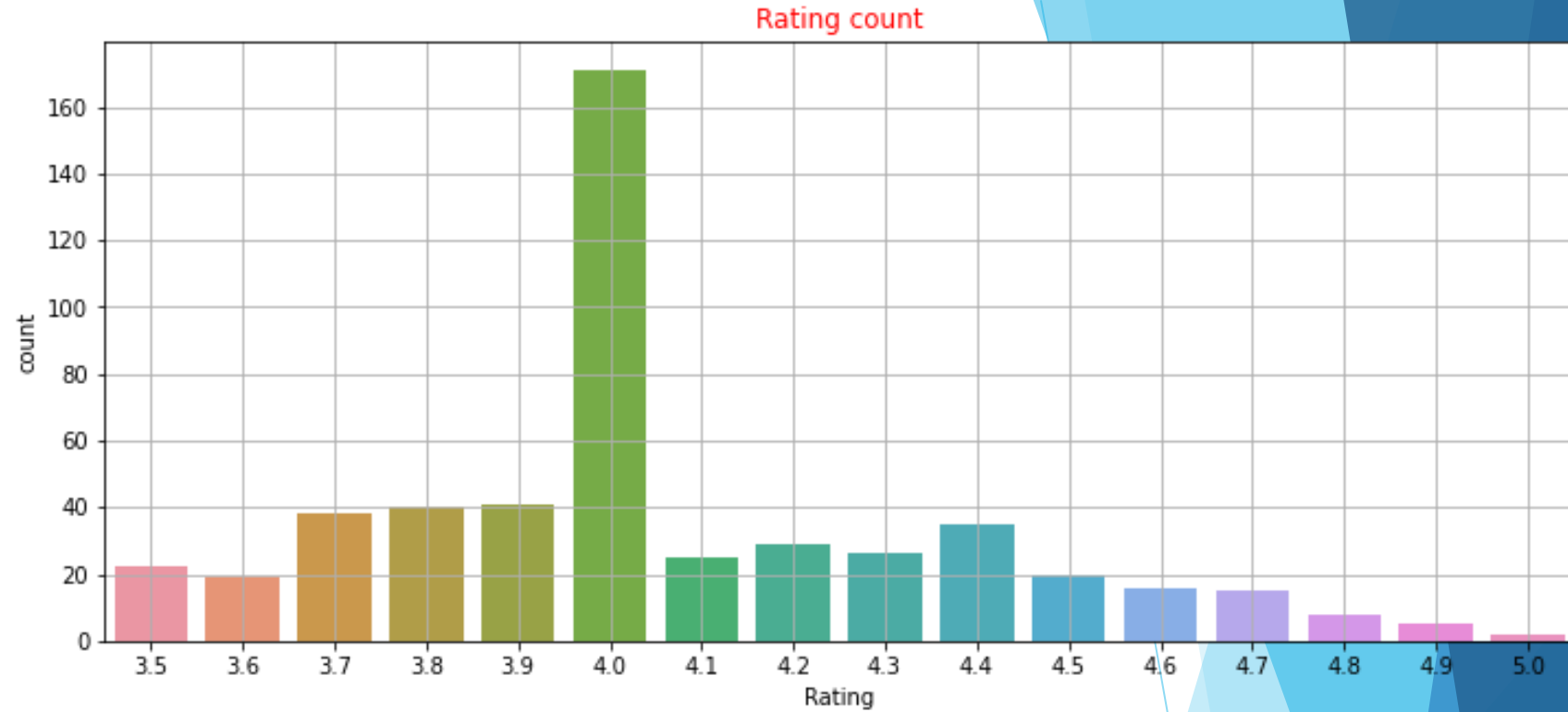


- ❖ 4.0 Rating Hotels are more among all three cities
- ❖ 5.0 Rating Hotels are very rare
- ❖ 3.7,3.8,3.9 hotels are bit less compared to 4.0 rating hotels

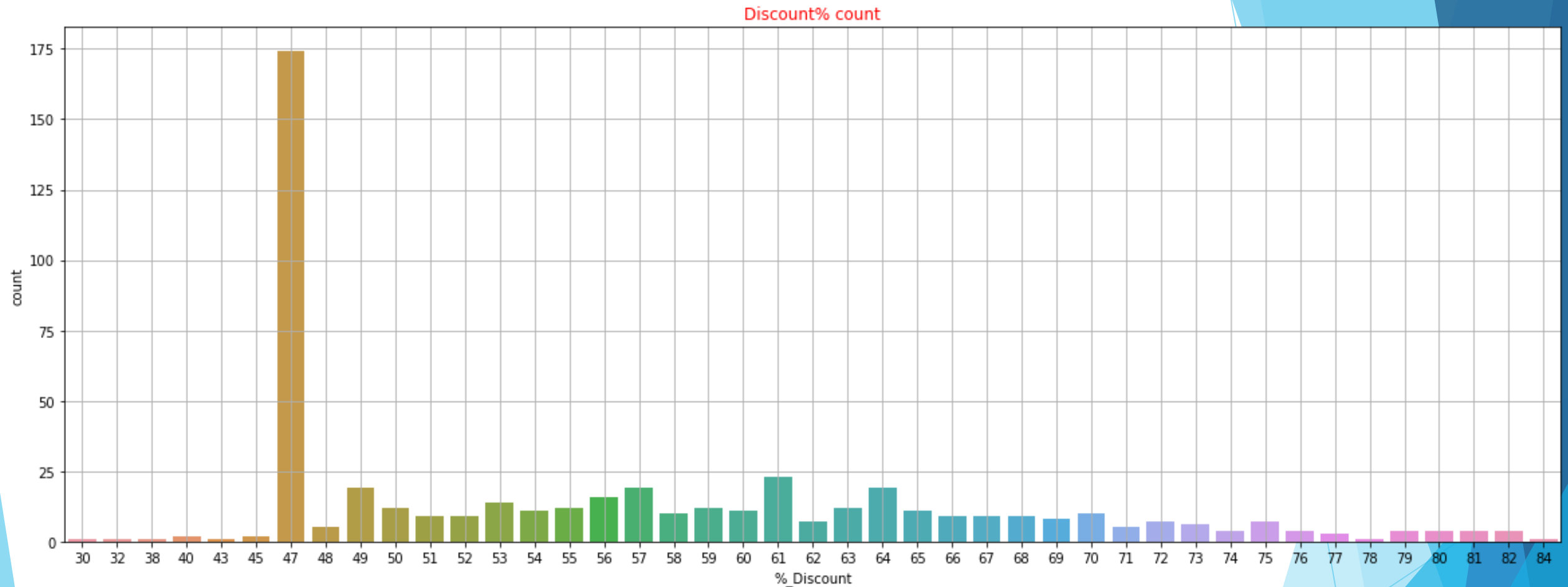
- ❖ Hydrerabad has the more number of hotels than compared to other
- ❖ Ooty has the less number of Hotels compared to all



- ❖ More than 160 hotels have 4.0 rating.
- ❖ More than 40 hotels have 3.9 rating.
- ❖ 40 hotels have 3.8 rating among all cities.
- ❖ Very rare hotels are having 5.0 rating.

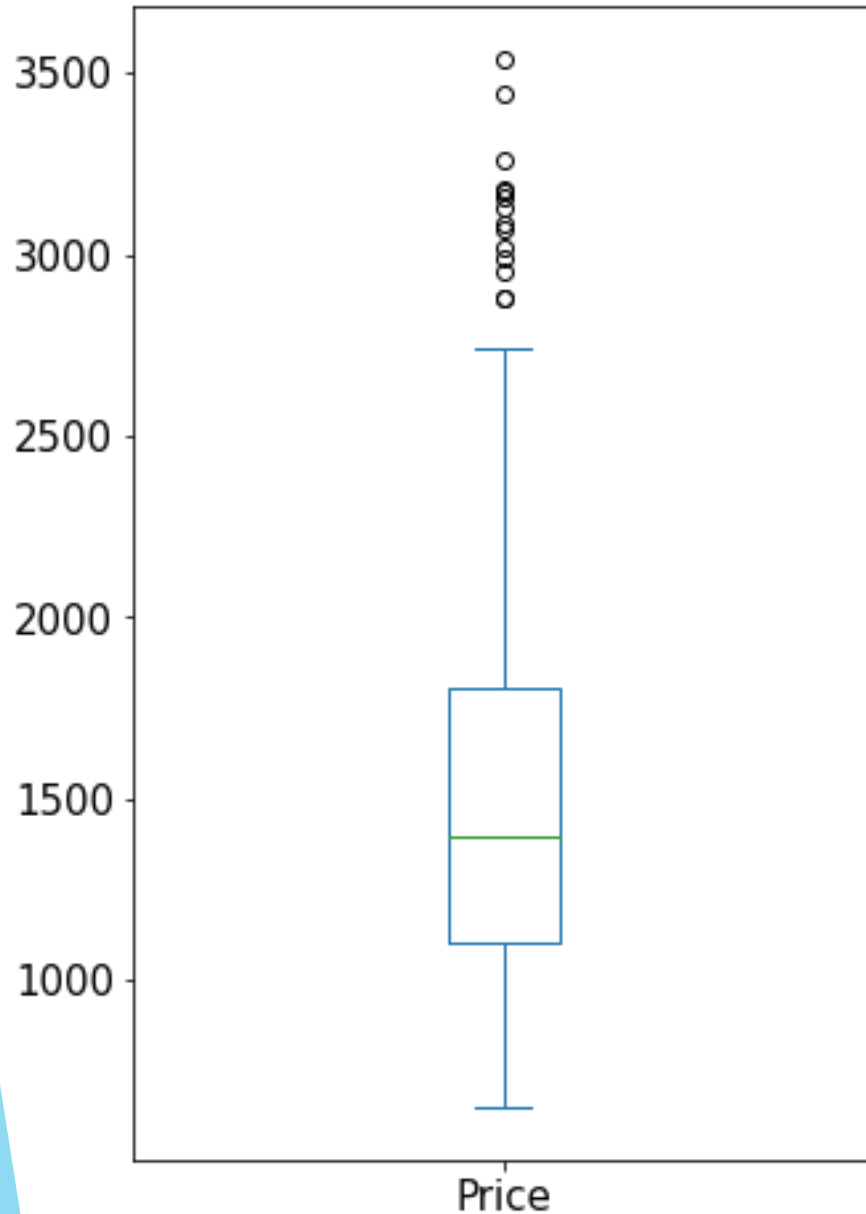


- ❖ Hyderabad has 390 hotels.
- ❖ Goa has 108 hotels.
- ❖ Ooty has 18 hotels.



- ❖ More than 174 hotels have 47% discount.
- ❖ 23 hotels have 61 % discount.
- ❖ Only 1 hotel have 84% Discount among all.

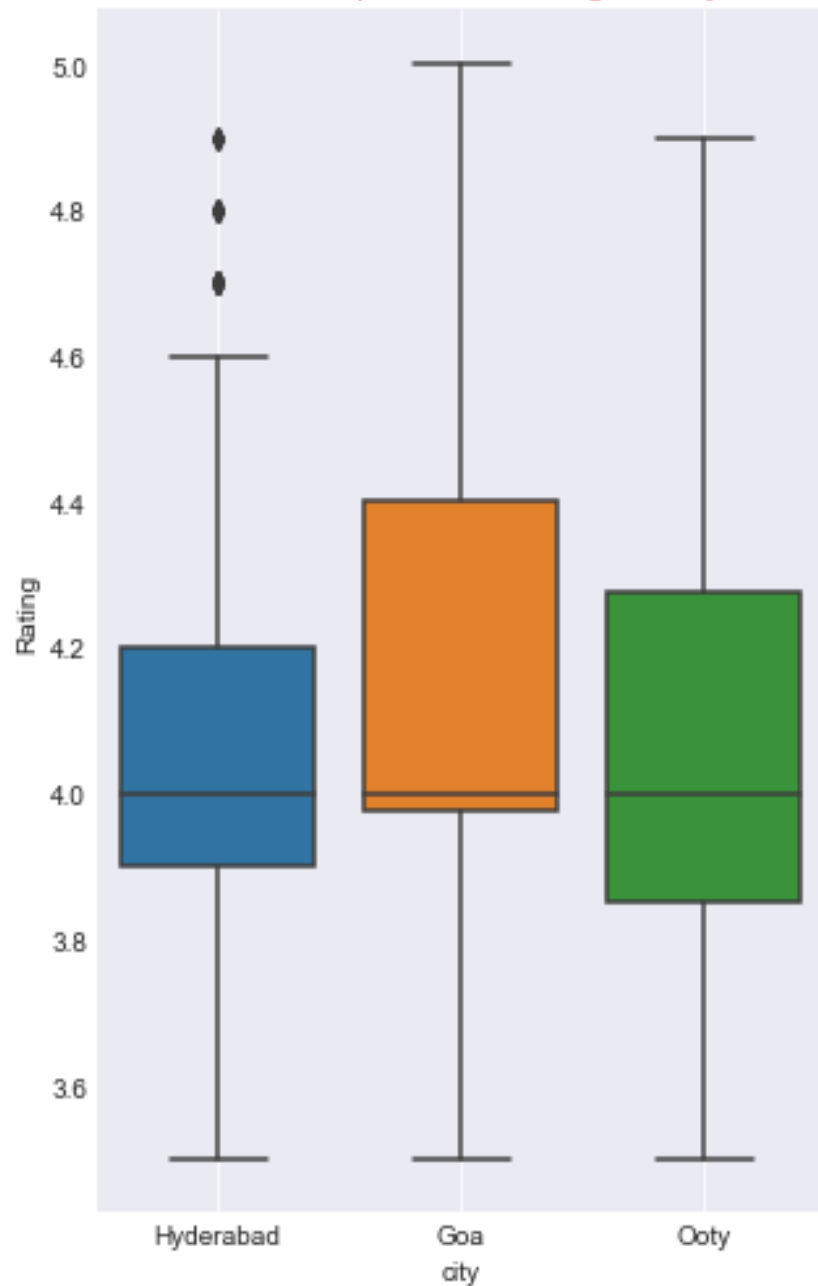
Representing price



count	512.000000
mean	1517.632812
std	524.350406
min	649.000000
25%	1099.000000
50%	1393.000000
75%	1803.250000
max	3540.000000

- ❖ Minimum hotel price is ₹649 among all Hotels.
- ❖ Maximum hotel price is ₹3540 among all Hotels.
- ❖ Mean hotel price
- ❖ Is ₹1517.

Relationship Between Rating and city



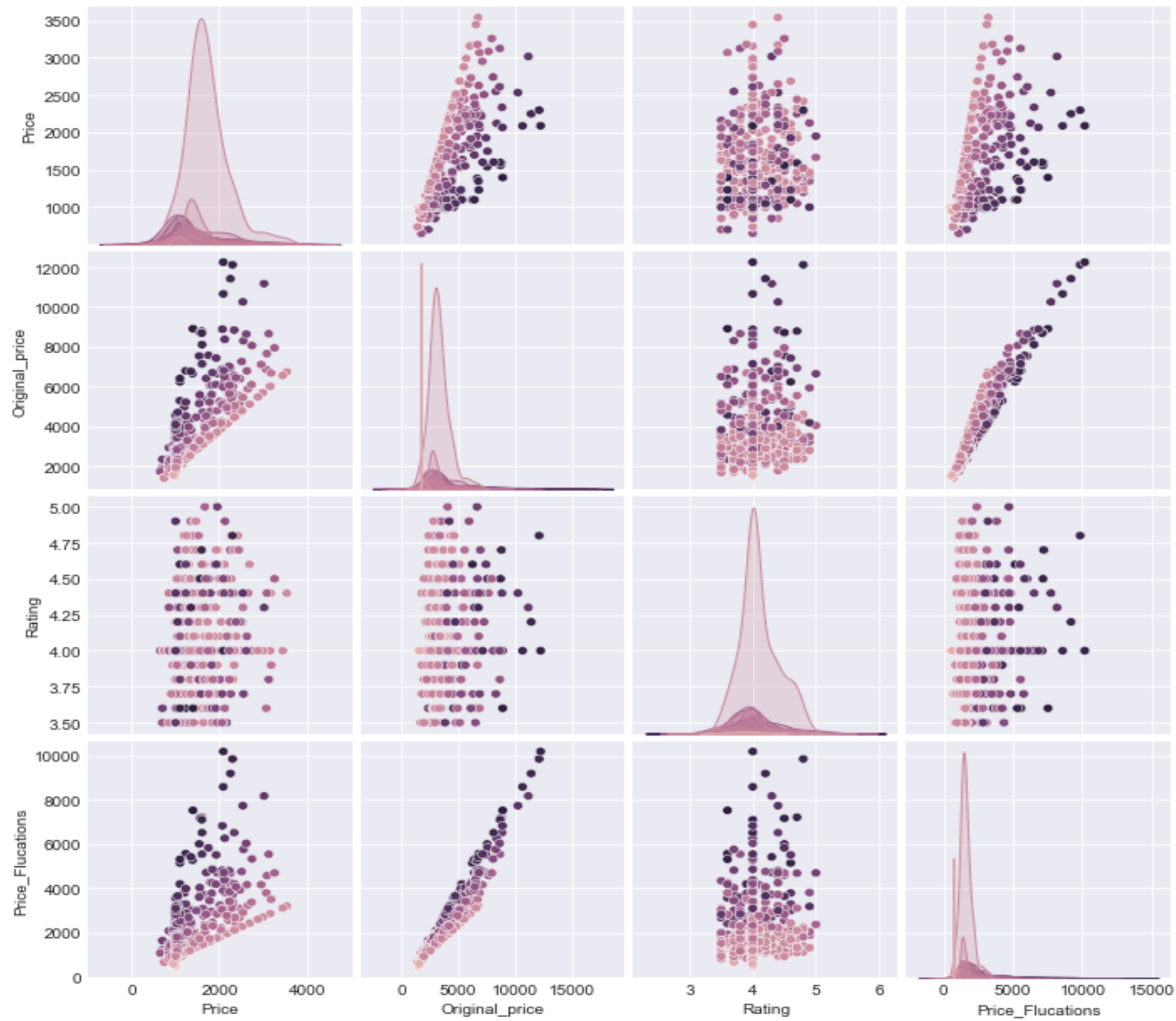
- ❖ median is 4.0 rating among all cities
- ❖ only goa has 5.0 rating hotels
- ❖ most of them are 3.5 rating hotels

	Price	Original_price	Rating	Price_Flucations	%_Discount
count	512.000000	512.000000	512.000000	512.000000	512.000000
mean	1517.632812	3732.867188	4.060547	2215.234375	56.250000
std	524.350406	1727.593733	0.315059	1420.240772	10.043545
min	649.000000	1402.000000	3.500000	440.000000	30.000000
25%	1099.000000	2639.500000	3.900000	1367.000000	47.000000
50%	1393.000000	3148.000000	4.000000	1714.000000	54.000000
75%	1803.250000	4254.500000	4.200000	2554.750000	64.000000
max	3540.000000	12266.000000	5.000000	10176.000000	84.000000

- ❖ Max price is ₹3540 & minimum is ₹649 for all hotels among three cities
- ❖ Max Discount is 84% &
- ❖ Minimum is 30% Discount for all hotels
- ❖ Max rating is 5.0 & minimum rating is 3.5 for all hotels



- ❖ Price and Discount are highly colurated
- ❖ Price and rating are normally colerated



Hotel_name	Price	Original_price	city	Area	Rating	Rating_summary	Price_Flucations	%_Discount
OYO 65004 La Vihan Resort	1951	6649	Goa	Vihan Resort	5.0	Fabulous	4698	70
SPOT ON 65327 Ashwem Beach Guest House	1668	4045	Goa	Guest House	5.0	Fabulous	2377	58
OYO Flagship 83509 Savita Holiday Goa	2128	5940	Goa	Holiday Goa	4.9	Fabulous	3812	64
OYO 85106 Hotel Elvin,s Place	2299	12137	Goa	Elvin,s Place	4.8	Excellent	9838	81
OYO 83865 Baba Guest House	1524	3331	Goa	Guest House	4.8	Excellent	1807	54
OYO 35467 Shiridi Residency	1349	3238	Hyderabad	Shiridi Residency	4.9	Fabulous	1889	58
Townhouse 733 Whiteridge Gachibowli Townhouse	1437	3477	Hyderabad	Gachibowli Townhouse	4.9	Fabulous	2040	58
OYO 84191 Residency Inn	1466	2792	Hyderabad	Residency Inn	4.9	Fabulous	1326	47
Collection O 81765 Hotel White Ridge	1243	2367	Hyderabad	White Ridge	4.8	Excellent	1124	47
OYO 78286 Collection O White Ridge	2420	4609	Hyderabad	White Ridge	4.8	Excellent	2189	47
OYO 78034 New Star Cottages	999	4184	Ooty	Star Cottages	4.9	Fabulous	3185	76
Collection O 83248 Silent Valley	1696	4528	Ooty	Silent Valley	4.5	Excellent	2832	62
OYO 10950 Hotel Hills Palace	2102	6813	Ooty	Hills Palace	4.4	Very Good	4711	69
OYO Flagship 44245 Hotel Rainforest Thalayathi...	999	3997	Ooty	Rainforest Thalayathimund	4.4	Very Good	2998	75
OYO 78121 Red Rock	1673	3938	Ooty	Red Rock	4.3	Very Good	2265	57

- ❖ Top 5 best hotels Among all cities
- ❖ We prefer to choose this best hotles for our upcoming trips on those cities &
- ❖ Will suggest our friends and other neighbours about these best hotels to visit



thank
you



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