



### Project Summary

Project Summary: EDA on Hospitality Domain Welcome to the EDA Project on Atliq Grands Hospitality Data! \* This project analyses booking trends, cancellationons, and revenue across various hotels under the Atliq brand.

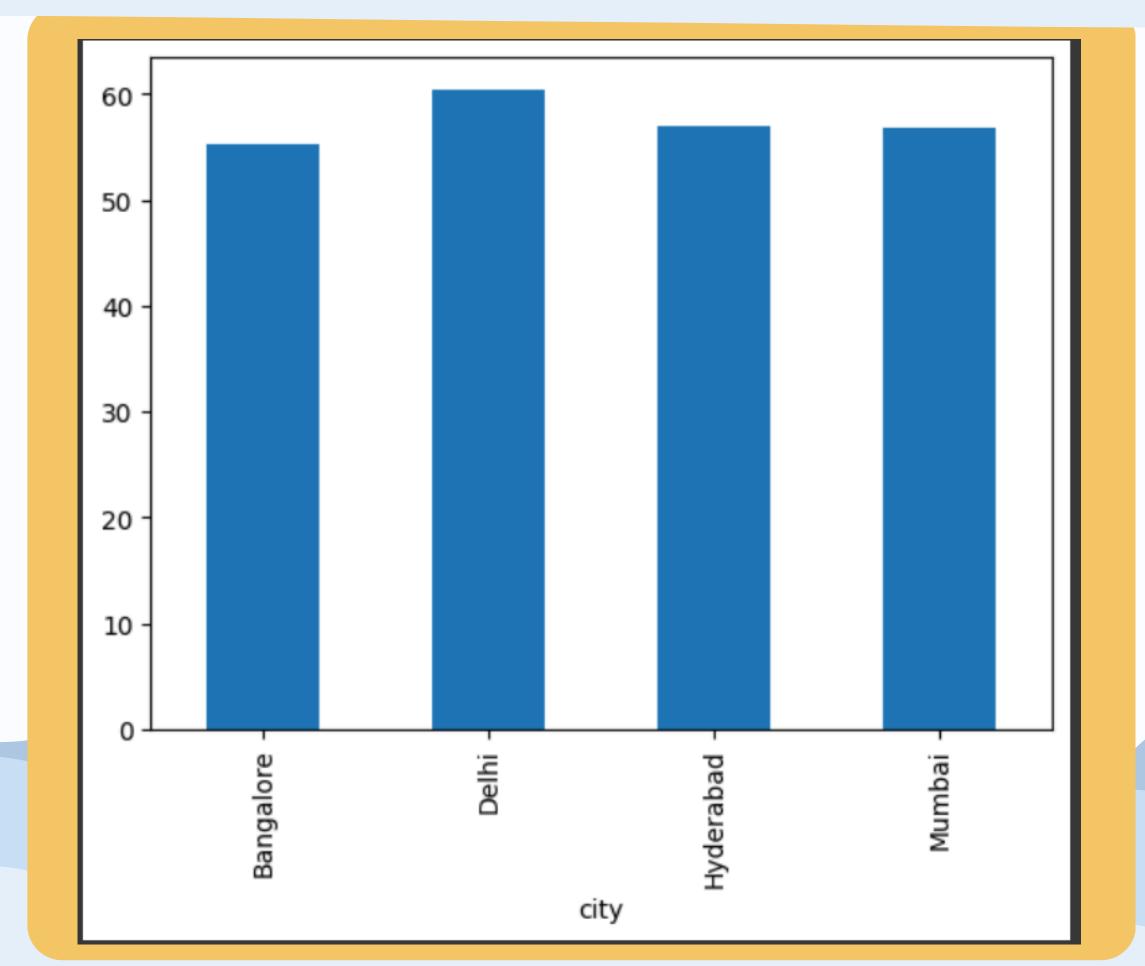


Booking Trends & Patterns: Analyzed seasonal and platformspecific booking behaviors. 2 Revenue Insights: Identified cities and properties facing revenue decline. 3 Occupancy Analysis: Evaluated occupancy rates to uncover optimization opportunities. 4 Cancellations: Examined the impact of cancellations on overall performance.

## What is an average occupancy rate in each of the room categories?

```
df.groupby('room_class')['occ_pct'].mean().round(2)
             occ_pct
 room class
    Elite
                58.04
  Premium
                58.03
 Presidential
                59.29
  Standard
                57.94
```

#### Print average occupancy rate per city



### When was the occupancy better? Weekday or Weekend?

```
df.groupby('day_type')['occ_pct'].mean().round(2)
₹
                occ_pct
     day_type
                  50.90
     weekeday
      weekend
                  72.39
```

#### Print month-by-month revenue

```
[155] df_bookings_all.groupby("mmm yy")["revenue_realized"].sum()
₹
              revenue_realized
      mmm yy
       Jul 22
                     243180932
      Jun 22
                     229637640
      May 22
                     234353183
```

# Print a pie chart of revenue realized per booking platform

