

ATLIQ GRANDS

INDIA'S LEADING HOTEL CHAIN

Explore our hotels in Delhi, Mumbai, banglore & hyderabad

HERE WE DO

AtliQ Grands: Strategic Data Analysis by using Python to Revitalize Hospitality Leadership



NUMPYY

PANDAS

MATPLOTLIB

SEABORN





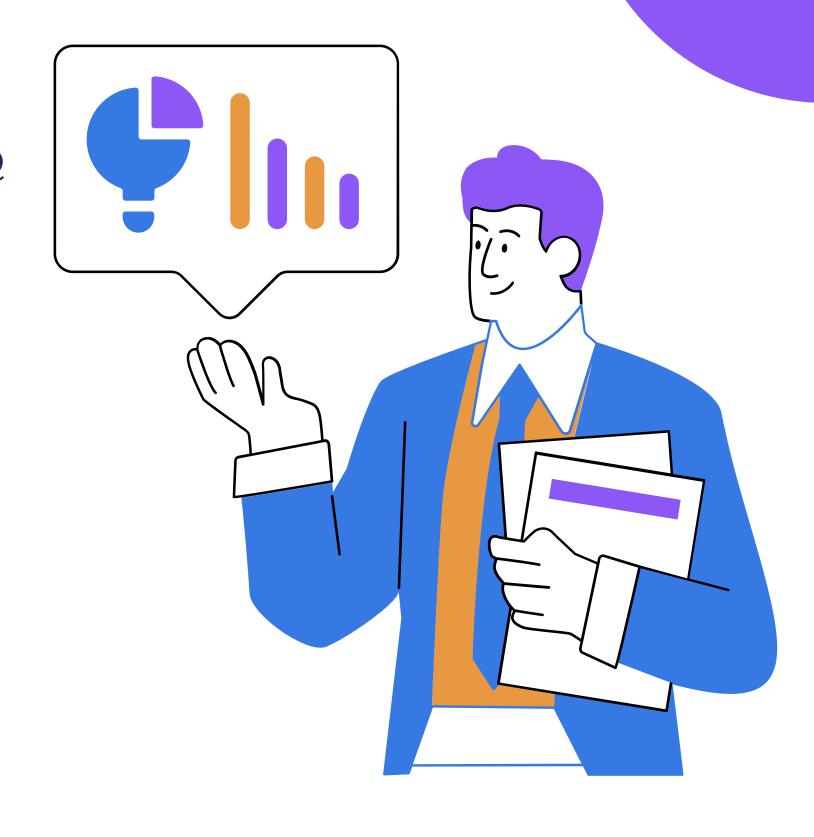


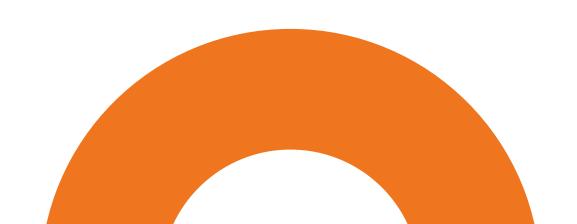


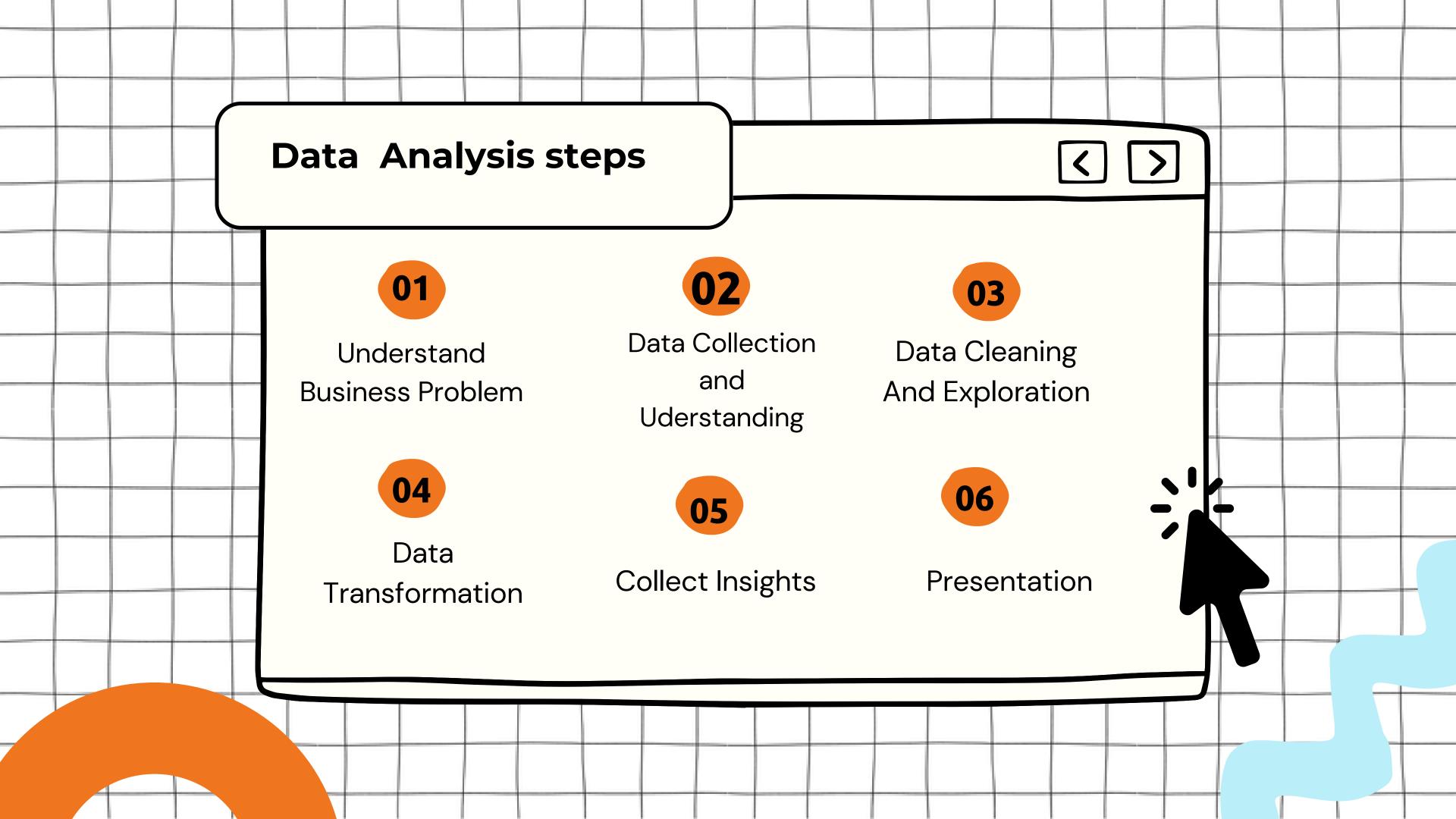


PROJECT OVERVIEW

Amid rising competition and declining revenue, *AtliQ Grands* — a prominent hospitality chain across four Indian cities — leveraged data analytics to uncover actionable insights and reclaim market dominance. This end-to-end analysis focused on optimizing occupancy, revenue, and service quality through Python-driven data cleaning, transformation, and visualization, enabling strategic decision-making.







DATA CLEANING

- Rectified Data Integrity
- Fixed negative guest counts
- Addressed NaN/Null values in Ratings Given
- Eliminated outliers in Revenue Generated & Realized
- Addressed incomplete August data (limited to Mumbai/Bangalore) to ensure accurate trend analysis.

DATA TRANSFORMATION

- Converting raw data into actionable intelligence
- Occupancy Percentage: Derived from successful bookings vs. capacity, enabling granular analysis.
- Revenue Segmentation: Analyzed by city, booking platform, and hotel type to identify profit drivers.

ADVANCED ANALYTICS & VISUALIZATION

- Visualized trends via
- bar charts* (occupancy by city/room)
- line graphs* (seasonal revenue)
- pie charts* (booking platform revenue share)



Pandas Proficiency

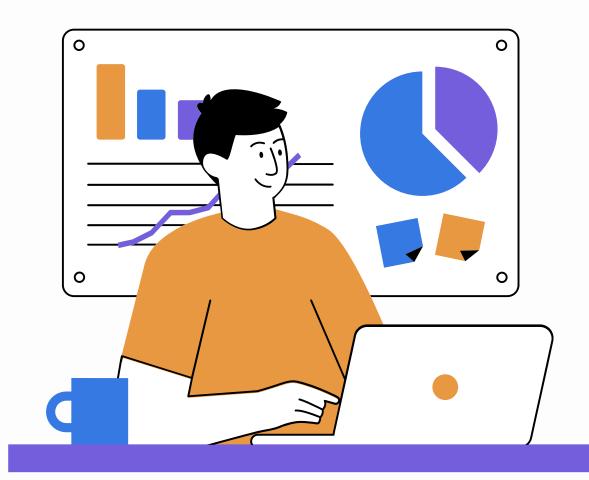
Expertly managed dataframes, group by functions, concatenation, merging, handling NA values, and reading CSV files.

Python Programming

Advanced techniques for data analysis, cleaning, transformation, and visualization.

Data Visualization

Leveraged Matplotlib to create compelling charts and graphs.





Insights Generated

Presidential rooms claim the highest occupancy rate.

Weekends exhibit higher occupancy (>70%) than weekdays (50.9%).

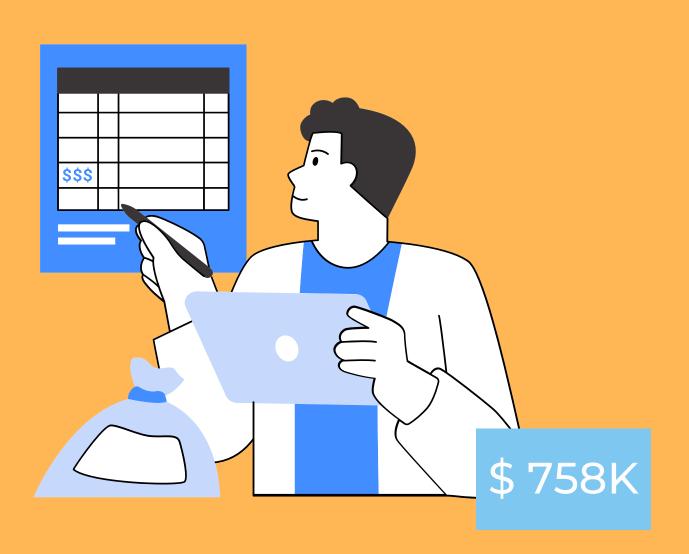
Delhi leads in occupancy, closely trailed by other cities.

Bangalore consistently records the lowest occupancy rate.

August data might be incomplete, available only for Mumbai and Bangalore.

Average ratings remain consistent across all cities.

Revenue Analysis:



- Delhi boasts high occupancy but the least realized revenue.
- Mumbai emerges as the revenue frontrunner.
- Total revenue per month peaks in July.

• AtliQ Seasons excels in low cancellation rates.

STRATEGIC RECOMMENDATIONS

BOOST WEEKDAY DEMAND:

Introduce corporate packages or events in low-occupancy cities like
Bangalore.

REVISE PRICING IN DELHI

Align high occupancy with dynamic pricing to maximize revenue.

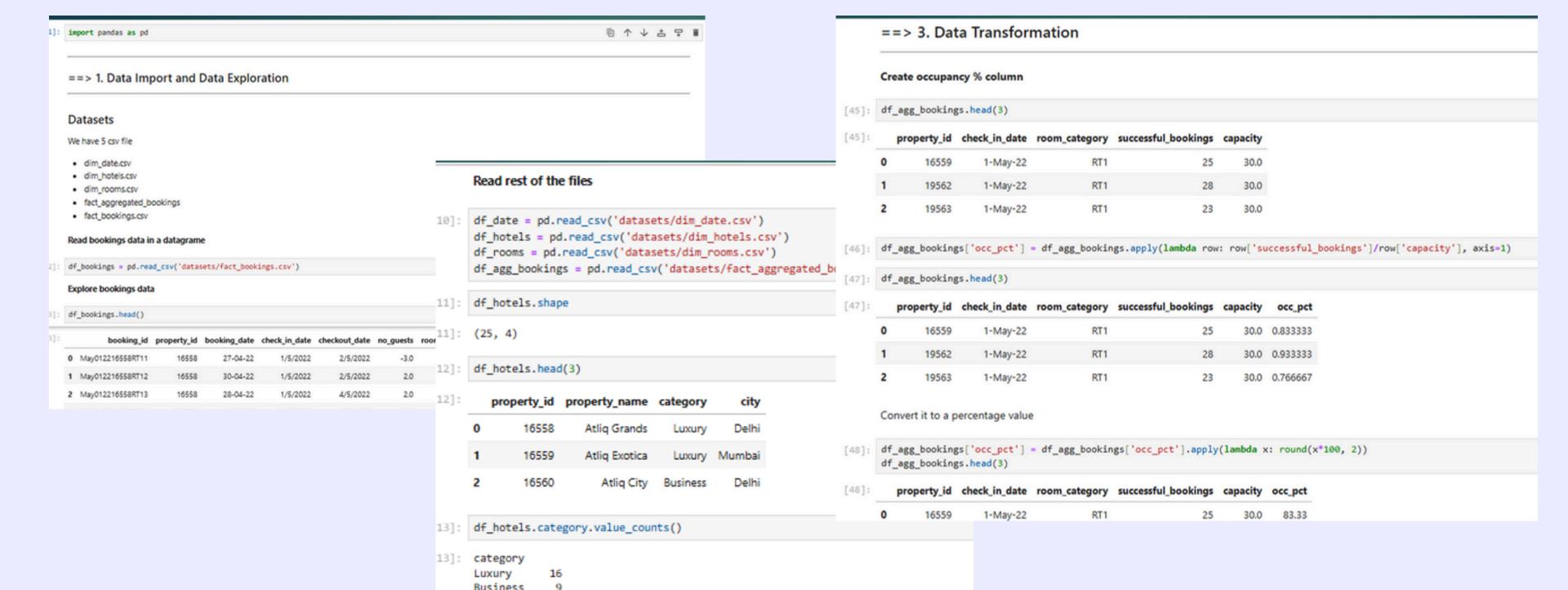
ENHANCE DIGITAL PLATFORMS:

Focus on
underperforming
booking
channels to
reduce
dependency on
"Others" category.

SERVICE EXCELLENCE PROGRAMS:

Address rating gaps through staff training and guest experience initiatives.

Visit Github to Download PDF, Datasets & Slides



Thank You





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