Booking.com Analytics: Uncovering Insights

EXPERIENCES OF EVERY KIND, FOR EVERYONE.

Analysts:

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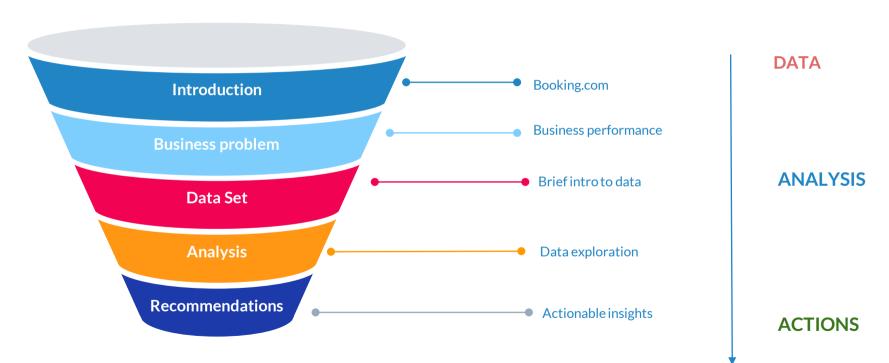


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Booking.com

Agenda



1. Introduction to topic:

Booking.com is a metasearch engine for booking travel accommodation. The website is owned by Booking Holdings in the United States.







Business problem



- Optimize its platform performance and enhance the traveler experience.
- Identifying High-valued hotels with affordable prices and create a recommendations systems.
- To analyze the data and find out behavioral patterns in customer reviews
- Identify underperforming hotels and factors affecting their performance

Strategic Analysis Areas



Customer Reviews Clustering: Group hotels based on the types of reviews they receive.

- Affordable Accommodation Options: Create a dashboard that has actionable insights on most affordable hotel with hotel ratings and room score of more than 8.
- > Sentiment Analysis: Evaluate the impact of hotel amenities by doing sentiment analysis of user reviews.

Data Sets



- Two data sets
 - Booking.com &
 - Tripadvisor

Columns in data set:

hotel_name	
location	Thailand
hotel_rating	From 1 to 10
review_score	Exceptional to fair
no_of_reviews	total review for each hotel
room_score	1 to 10
room_type	one bedroom to deluxe and suits
bed_type	Double bed, queen, king size etc
room_price	(USD)
Room reviews	Detailed reviews for each property

Disclaimer or Constraints



Influence of Guest-Staff Relationships:

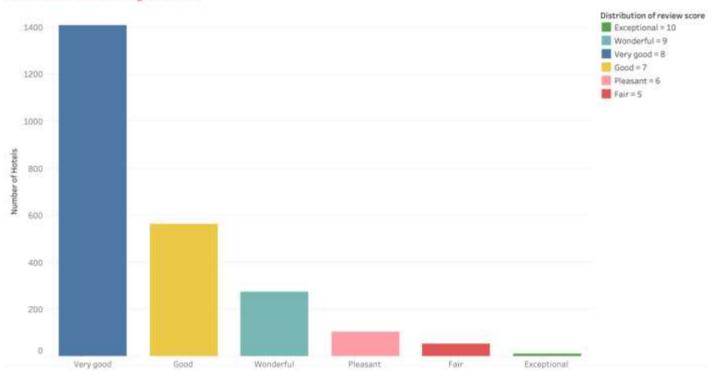
 Factors like relationships between guests and the hotel staff/owners/managers can affect the sentiments and reviews of customers

Diversity of Customer Origins:

 Distinct cultural expectations and experiences can lead to differing perspectives in feedback. Therefore, reviews from local and international customers may exhibit variations.

Customer Reviews Clustering

58 % of hotels have hotel ratings above 8 30% have hotel ratings below 7



High-valued hotels with affordable prices

- Recommendation system that helps travelers find affordable accommodations that meet their preferences while maintaining a good level of quality can be used by booking.com on their site.
- Booking.com can increase revenues from these affordable hotels with high ratings.



Sentiment Analysis



Analyzing behavioral patterns of customers reviews

- Sentiment Analysis for Quality Assurance
- Customer Satisfaction Improvement Rate
- Success Factor Identification Rate

Sentiment Analysis for Quality Assurance

- Objective: Conduct sentiment analysis to identify accommodations with positive and negative reviews.
- Aims to aid service providers in making informed decisions about their services.

69% of the customer reviews are positive and around 30% are negative



Customer satisfaction improvement

Customer Satisfaction Improvement Rate:

- Objective: Boost customer satisfaction by reducing negative reviews.
- Achieved through thorough analysis of customer feedback.
- Identifying common issues in accommodations for quality enhancement.

Key Services essential for Hospitality Industry

1. Accommodation

Providing comfortable and well-maintained hotel rooms, suites, or vacation rentals.

1. Hospitality - Customer Service and Guest Relations Building positive relationships with guests to enhance their overall experience.

1. Dining & Food

Offering dining experiences that range from fine dining to casual and fast-casual options.



Reviews Categorization

Accomodation

Hospitality

Dining & food

pool, worst,

disappointing, room,

kitchen, toilet,

uncomfortable

service, staff, late,

checkout, checkin,

housekeeper, bad,

horrible, negative, cheap,

ugly

food, breakfast,

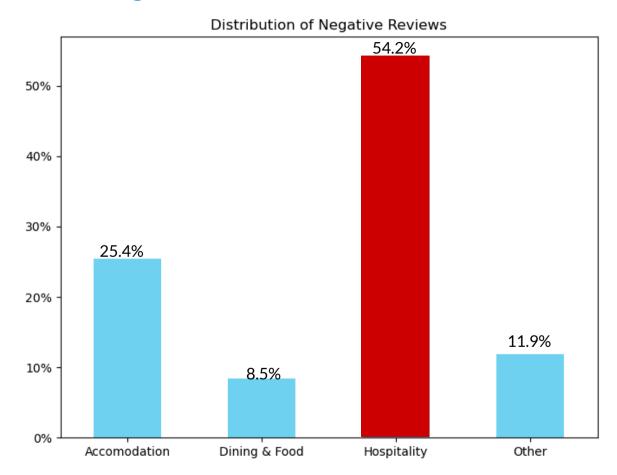
restaurant, cafeteria,

menu, quality, strange,

resort

Factors affecting hotels with Negative Reviews

- Reviewers mentioned more negative words regarding hospitality service
- Keywords such as service, staff, late, checkout, checkin, negative, cheap,
- Service providers should focus more on improving their hospitality services



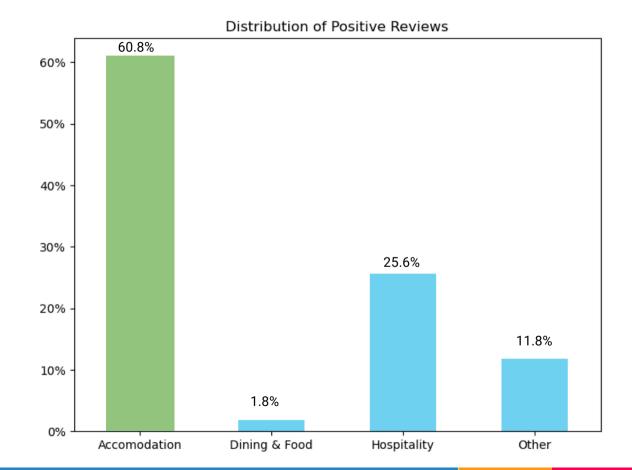
Success Factor Identification Rate

Success Factor Identification Rate

- Objective: Identify critical success factors that contribute to its ongoing success in the travel industry.
- Determine what customers appreciate and how to improve services.
- Maintain leadership in the travel industry through continuous improvement and datadriven insights.

Factors Driving Success: High-Performing Hotels

- Reviewers mentioned more words regarding hospitality service
- Keywords such as clean, excellent rooms, great kitchen are mentioned under accomodation services.



Recommendations

- Implement a High-Value Hotel Section- Feature these hotels prominently to attract budget-conscious travelers.
- Booking.com can increase revenues from affordable hotels with high ratings.
- Booking.com should recommend its service providers where the reviews are negative to focus more on improving their hospitality services
- Focus on giving more flexibility in check in and checkout time.
- Loyalty programs by offering discounts e.g flight discounts, cab rentals.

Technologies/ Tools











Thank you for listening