HOTEL
Booking demand
Analysis

T5 Bootcamp Data Science Project - Nora Alsaadi

Project Goals

analyze cancellations in hotels, whether resorts or city hotels,to help devise new methods to reduce the consequent losses.

the results allow hotel managers to improve cancellation policies, define better overbooking

Hotel Booking Demand

The dataset is provided in .CSV format ,from Kaggle contains 119390 rows and 32 columns

Hotel Booking Demand Dataset

hotel	is_canceled	lead_time
Resort Hotel	0	13
Resort Hotel	0	14

deposit_type	agent	days_in_waiting_list	customer_type	average_daily_rate	required_car_parking_spaces	total_of_special_reque
No Deposit	304.0	0	Transient	75.0	0	
No Deposit	240.0	0	Transient	98.0	0	

Process Data

01

Explore dataset

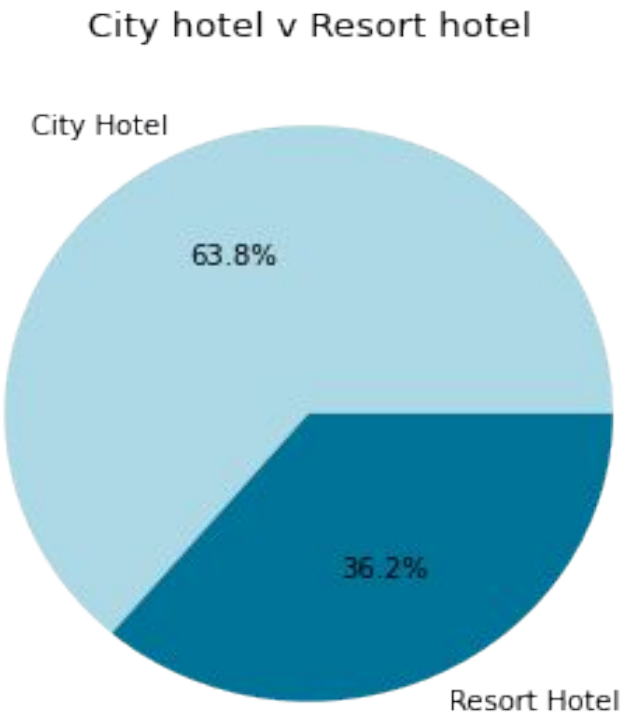
02

Cleaning Dataset

03

Analysis and visualization

Data Visualization

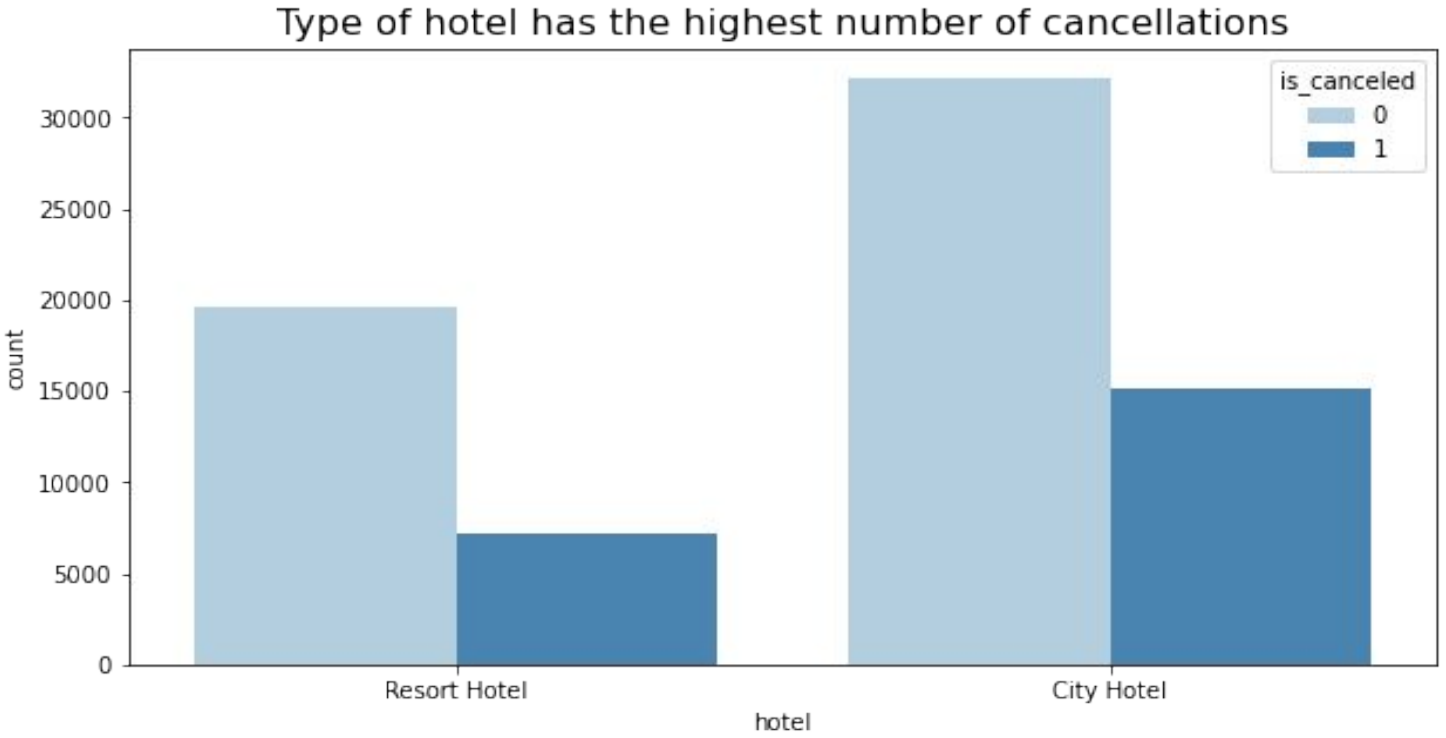


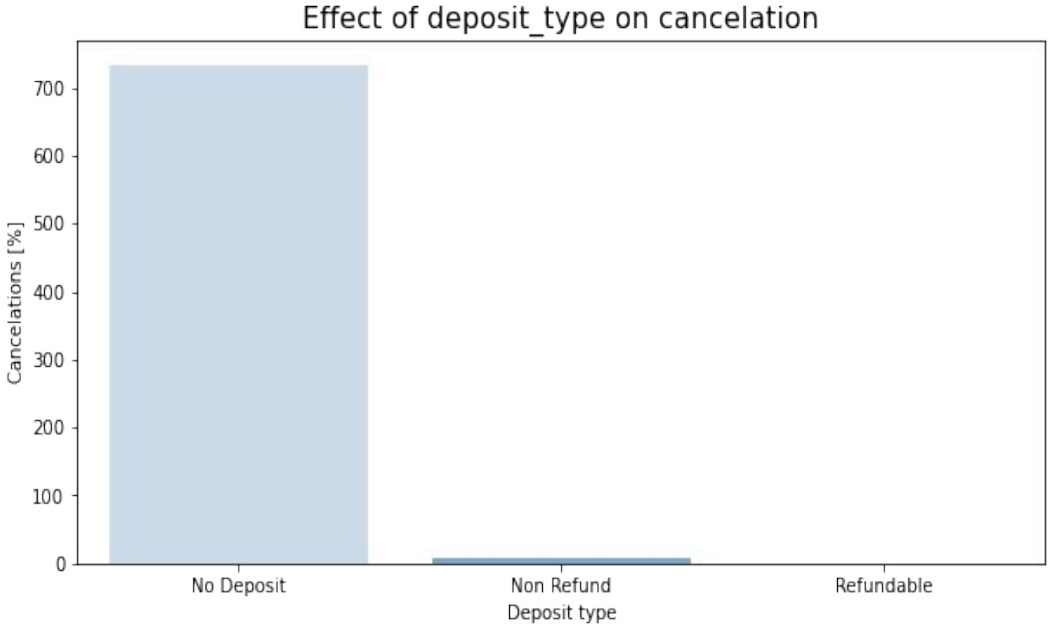
City Hotel

Is more No than the resort hotel

Resort Hotel

Is less No than the city hotel

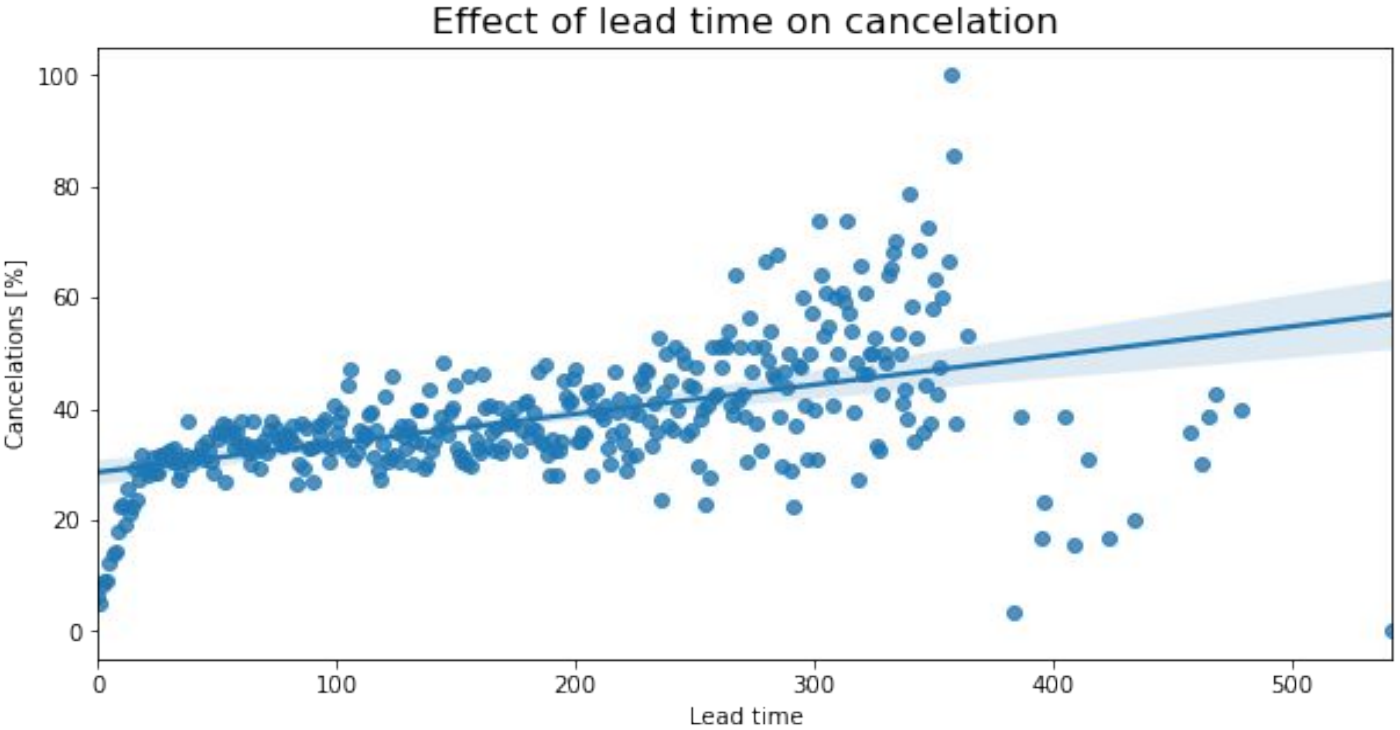

Type of hotel has the highest number of cancellations
is_canceled
0
1
30000
25000
20000
15000
10000
5000
0
count
Resort Hotel
City Hotel
hotel



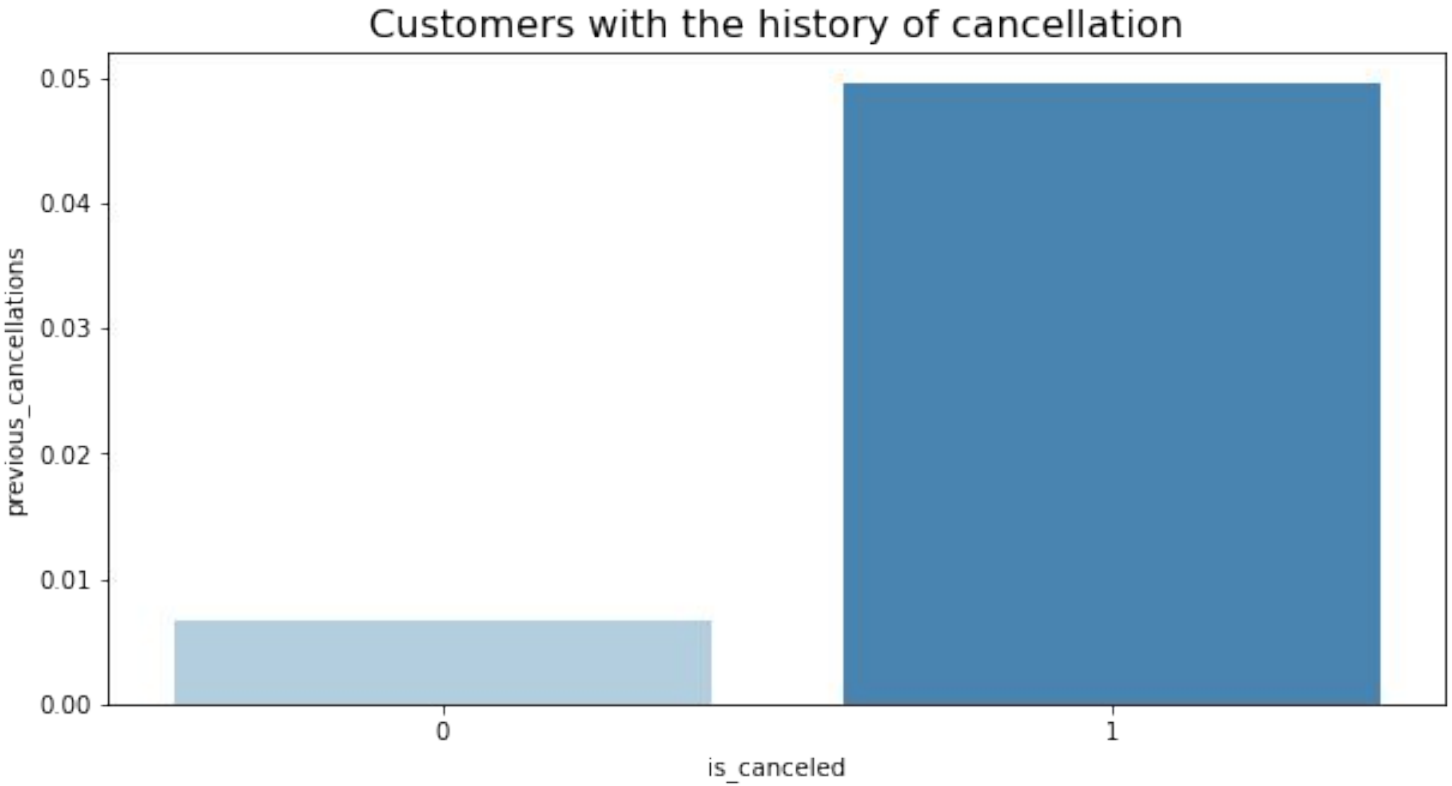
No deposit

Non Refund

Refundable



Bookings made a few days before the arrival date are rarely canceled, whereas bookings made over one year in advance are canceled very often.


Customers with the history of cancellation
previous_cancellations
0.05
0.04
0.03
0.02
0.01
0.00
0
1
is_canceled

THANKS

for your attention