

# **Hotel Booking Data Analysis - Python Project**

## **Data Analysis Project Steps:**

1. Create a Problem Statement.
2. Identify the data you want to analyze.
3. Explore and clean the data.
4. Analyze the data to get useful insights.
5. Present the data in terms of reports or dashboards using visualization.

## **Business Problem**

In recent years, City Hotel and Resort Hotel have seen **high cancellation rates**. Each hotel is now dealing with a number of issues as a result, including fewer revenues and primary goal in order to **increase their efficiency in generating revenue**, and for us to offer thorough business advice to address this problem.

The analysis of hotel booking cancellations as well as other factors that have no bearing on their business and **yearly revenue generation** are the main topics of this report.

## **Assumptions**

1. No unusual occurrences between 2015 and 2017 will have a substantial impact on the data used.
2. The information is still current and can be used to analyze a hotel's possible plans in an efficient manner.
3. There are no unanticipated negatives to the hotel employing any advised technique.
4. The hotels are not currently using any of the suggested solutions.
5. The biggest factor affecting the effectiveness of earning income is booking cancellations.
6. Cancellations result in vacant rooms for the booked length of time .
7. Clients make hotel reservations the same year they make cancellations.

## **Research Question**

1. What are the variables that affect hotel reservation cancellations?
2. How can we make hotel reservations cancellations better?
3. How will hotels be assisted in making pricing and promotional decisions?

# Hypothesis

1. More cancellations occur when prices are higher.
2. When there is a longer waiting list. Customers tend to cancel more frequently.
3. The majority of clients are coming from offline travel agents to make their reservations.