**Hotel Reservations Dataset**

#### **Context**

The online hotel reservation channels have dramatically changed booking possibilities and customers’ behavior. A significant number of hotel reservations are called-off due to cancellations or no-shows. The typical reasons for cancellations include change of plans, scheduling conflicts, etc. This is often made easier by the option to do so free of charge or preferably at a low cost which is beneficial to hotel guests but it is a less desirable and possibly revenue-diminishing factor for hotels to deal with.

###### **Can you predict if the customer is going to honor the reservation or cancel it ?**

**About this file**

The file contains the different attributes of customers' reservation details. The detailed data dictionary is given below.

**Data Dictionary**

* **Booking\_ID**: unique identifier of each booking
* **no\_of\_adults**: Number of adults
* **no\_of\_children**: Number of Children
* **no\_of\_weekend\_nights**: Number of weekend nights (Saturday or Sunday) the guest stayed or booked to stay at the hotel
* **no\_of\_week\_nights**: Number of week nights (Monday to Friday) the guest stayed or booked to stay at the hotel
* **type\_of\_meal\_plan**: Type of meal plan booked by the customer:
* **required\_car\_parking\_space**: Does the customer require a car parking space? (0 - No, 1- Yes)
* **room\_type\_reserved**: Type of room reserved by the customer. The values are ciphered (encoded) by INN Hotels.
* **lead\_time**: Number of days between the date of booking and the arrival date
* **arrival\_year**: Year of arrival date
* **arrival\_month**: Month of arrival date
* **arrival\_date**: Date of the month
* **market\_segment\_type**: Market segment designation.
* **repeated\_guest**: Is the customer a repeated guest? (0 - No, 1- Yes)
* **no\_of\_previous\_cancellations**: Number of previous bookings that were canceled by the customer prior to the current booking
* **no\_of\_previous\_bookings\_not\_canceled**: Number of previous bookings not canceled by the customer prior to the current booking
* **avg\_price\_per\_room**: Average price per day of the reservation; prices of the rooms are dynamic. (in euros)
* **no\_of\_special\_requests**: Total number of special requests made by the customer (e.g. high floor, view from the room, etc)
* **booking\_status**: Flag indicating if the booking was canceled or not.