**Data Dictionary for Ocean Crest Predictive Analytics Project**

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| **Variable** | **Type** | **Description** | **Source/Engineering** |
| ADR | Numeric | Average Daily Rate, calculated by dividing the total lodging transaction sum by the total number of nights | Feature engineered from booking and transaction data |
| Adults | Integer | Number of adults in the booking | Extracted from booking data |
| IsCanceled | Categorical | Indicates if the booking was canceled (1 = Yes, 0 = No) | Extracted from reservation status |
| LeadTime | Integer | Number of days between booking entry and arrival date | Calculated as the difference between booking entry and arrival |
| MarketSegment | Categorical | The segment of the market the booking belongs to (e.g., Travel Agents, Direct, Groups) | Extracted from booking data |
| Children | Integer | Number of children included in the booking | Extracted from booking data |
| Babies | Integer | Number of babies included in the booking | Extracted from booking data |
| Kids | Integer | Combined number of children and babies in the booking | Feature engineered by summing `Children` and `Babies` |
| DistributionChannel | Categorical | The distribution channel through which the booking was made | Extracted from booking data |
| ReservationStatus | Categorical | Indicates the final status of the booking (e.g., Canceled, No-show, Checked-out) | Extracted from reservation data |
| Country | Categorical | The country of origin of the guest | Extracted from guest data |
| DaysInWaitingList | Integer | Number of days the booking was on the waiting list | Extracted from booking data |
| TotalOfSpecialRequests | Integer | Number of special requests made by the guest | Extracted from guest data |
| PreviousCancellations | Integer | Number of previous cancellations made by the guest before the current booking | Extracted from guest booking history |
| AssignedRoomType | Categorical | The room type assigned to the booking, which may differ from the reserved room type | Extracted from booking and hotel operation data |
| PreviousBookingsNotCanceled | Integer | Number of previous bookings by the guest that were not canceled | Extracted from guest booking history |
| Meal | Categorical | Type of meal plan booked (e.g., Bed & Breakfast, Half Board, Full Board) | Extracted from booking data |
| DepositType | Categorical | Indicates whether a deposit was made to secure the booking (e.g., No Deposit, Non-Refundable) | Calculated based on payment data |
| SpecialRequests | Categorical | Indicates the number or types of special requests made by the guest (e.g., high floor, twin bed) | Extracted from booking data |
| BookingChanges | Integer | Number of changes made to the booking from initial creation to check-in or cancellation | Calculated from booking log data |
| PreviousBookings | Integer | Number of previous bookings associated with the guest | Extracted from guest history data |
| ArrivalDateDayOfMonth | Integer | The day of the month on which the guest is expected to arrive | Extracted from booking data |
| ArrivalDateMonth | Categorical | The month of the guest’s arrival (e.g., January, February, etc.) | Extracted from booking data |
| ArrivalDateWeekNumber | Integer | Week number of the guest’s expected arrival | Extracted from booking data |
| StaysInWeekendNights | Integer | Number of weekend nights (Saturday or Sunday) the guest stayed or booked to stay | Calculated from booking data |
| StaysInWeekNights | Integer | Number of weekday nights (Monday to Friday) the guest stayed or booked to stay | Calculated from booking data |
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