**CLUB MAHINDRA SPENDING ON RESORT**

**Objective**

Develop new methods for data manipulation and prediction that will enable us to take sound business decisions. Using a combination of machine learning and diverse data sets, you would deliver scalable decision science that will help serve our customers better.

**Roles and Responsibilities:**

* Translate unstructured business problems into well-defined machine-learning projects
* Design and implement highly machine learning models for predicting various outcomes.
* Take responsibility for modelling implementation in real-world settings to solve real-world problems

**Technique**

* The model will be evaluated on the MSE/RMSE of your predictions on a test set.
* Different Techniques such as Stacking, Ensembling, Boosting and Scientific Operations such as box-cox Operations to reduce the skewness of the data.

# **Variable Description**

* reservation\_id : Reservation ID
* booking\_date : Date of booking
* checkin\_date : Checkin date recorded at the time of booking
* checkout\_date : Checkout date recorded at the time of booking
* channel\_code : Different channels of booking
* main\_product\_code : Type of product a member has purchased
* numberofadults : Number of adults travelling
* numberofchildren : Number of children travelling
* persontravellingid : Type of person travelling
* resort\_region\_code : Resort Region
* resort\_type\_code : Resort Type
* room\_type\_booked\_code : Room Type
* roomnights : Number of roomnights booked
* season\_holidayed\_code : Season Holidayed
* state\_code\_residence : Residence State of Member
* state\_code\_resort : State in which resort is located
* total\_pax : Total persons travelling
* member\_age\_buckets : Age bucket of the member
* booking\_type\_code : Type of Booking
* memberid : Unique ID of the member
* cluster\_code : Cluster Code of Resort
* reservationstatusid\_code : Reservation Status ID
* resort\_id : Unique Resort ID
* amount\_spent\_per\_room\_night\_scaled : (Target) Resort Spend Per Room Night