**Instruction to run code**

Based on my research, all these data highly depended on Day of Week and Time of Day. Due to difference in the data distribution between TRAIN and TEST data. I have fitted different model for Different Time of Day. In the predicted TEST data, I have included two columns (INDEX and PRED\_LABEL). Although, many models need to fit, however, since data size reduces, it doesn’t take more than an hour for each of the four data types.

Link to download Prediction Files and Codes

<https://drive.google.com/drive/folders/0B1bO4RBKEjzzTWt4aEtHWldiTFU?usp=sharing>

To run this code you need the following four R files.

1. Disney Competition Main R Code.R
2. Disney Competition Test data R Code.R
3. Disney Competition Train data R Code.R
4. Disney Competition R Function.R

Steps

1. Keep this all files in the same location
2. Change the following in Disney Competition Main R Code.R
   1. Just need to change the data path (datapath), code path (codepath), train data name (dataname) and test data name (test\_data\_name). Examples are given below.
      * datapath = "C:/Users/ka746940/Desktop/WaltDisney Competition/Data/Disney Touring Plans Data/"
      * codepath = "C:/Users/ka746940/Desktop/WaltDisney Competition/R Code/"
      * dataname = c("AK07")
      * test\_data\_name = c("AK07\_predict")
3. Function “train\_data\_prep” can be used to prepare TRAIN data. Note that, during train data preparation it will save a lot of CSV files in the same data location.
4. Function “test\_data\_prep” can be used to prepare TEST data. Note that, you need to run “train\_data\_prep” before running “test\_data\_prep”.
5. Function “randomforeset\_func” can be used to fit Random Forest model on the TRAIN data.
6. After fitting the model, Function “pred\_func\_rf” can be used to Predict TEST data.

I have saved the fitted model for each of the data sets.