ENGR 350

Project Name: Analysis & Inspection on Cancellation Behavior of Hotel Customers

Phase I – Project Proposal

Fırat Tamur

60534

Kutay Eroğlu

59970

Most of the hotels in crowded cities have the problem of being full in the most favorable times of the year. Customers who reserve a room but fail to show up and do not pay cause a big problem to the owner and to person who could have booked the room instead. We aim to provide an optimized way, which shows what type of customers are more inclined to cancel their bookings. Furthermore, we aim to show which type of customers are more favorable for hotel owners in terms of profit. This favorability will depend on meal plans customers choose and the duration they stay.

DATA: We are going to get the dataset from Kaggle. We will be cleaning some of the columns that have null values in them. Also, some columns that seem to be irrelevant will be dropped. Input and output data format will be csv.

PROCESSING: We will be using different kind of ML algorithms. Data will be divided in half to train and test separately. Mainly, visualization will be done with graphs. (countplot, barplot, histogram)

PROGRAMMING: Nunpy, pandas, matplotlib.pyplot, seaborn, scikit-learn may be used.