Hotel Booking Cancelation Prediction System

Hotels work on principle of "making right room available for right guest along with right price at right time". So, manually forecasting all these right things becomes difficult task for hotel managers. To improve forecasting of such things and provide better services at hotels Hotel booking cancellation prediction system is used. The main objective of our system is to use Machine Learning to predict hotel booking cancellation chances. The dataset has 32 features out of which 2 unimportant features are removed to reduce unnecessary overhead of system. This system performed well with many machine learning alorithms like decision tree, Gradient Boosting, Random Forest, K- nearest neighbours, Naïve Bayes, adaboost and xgboost. This prediction will also help to improve cancellation policies, to define better overbooking tactics. To implement this system we have used, Intel(R) Core(TM) i3-2350 CPU @ 2.30GHz processor, 4.00GB RAM and 64-bit Operating System.

Advantages:
- High Prediction Accuracy

Disadvantage:
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