







KAGGLE PRESENTATION

Predicting Rental Price For AIRBNB

Data Exploration and Visualization 			Data Cleaning 			Data Analysis and Modelling 		
<ul style="list-style-type: none">Exploring the type and values of existing 91 variables in AnalysisDataExploring outliers of some variables such as price, minimum days using ggplotAdding some levels missing in train dataScoping the data for additional potential variables			<ul style="list-style-type: none">Finding the multiple NA, N/A or "" values present in dataChanging the dates in the data to more useful formatsCounting the characters of the factors with multiple levelsLogically replacing the various types of NA with mean, median or 0			<ul style="list-style-type: none">Trying out the linear regression model to fit all variablesTesting the submission file for NA values to see if all data is cleaned properly or noUsing random forest (turned out to be so time consuming!!)Hyper parameter tuning of gradient boosting model (gbm) – number of trees, interaction depth and shrinkage		
Feature engineering 			Things that went wrong 			Final results and learning 		
<ul style="list-style-type: none">Extracting the count of “luxury” & “luxurious” from 5 variablesExtracting the transit modes “bus”, “train” and “subways” from transitExtracting latitude and longitudes from zip codesExtracting number of amenities with help of commas			<ul style="list-style-type: none">Methodology of selecting the variablesUsing the parameters of trees to fine tune the various modelsRunning models for hours and then realizing some unclean dataTrying to utilize all variables			<ul style="list-style-type: none">RMSE public : 55.98079RMSE private : 57.43220 <p>Don't give up and have enough time to run models or to test them and probably learn NLP and SQL for faster and shorter codes</p>		