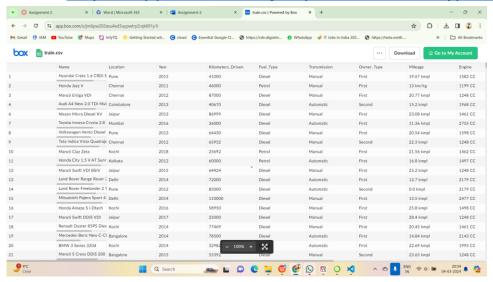
Assignment-2

SAMSRITHA RAAVI

16351883

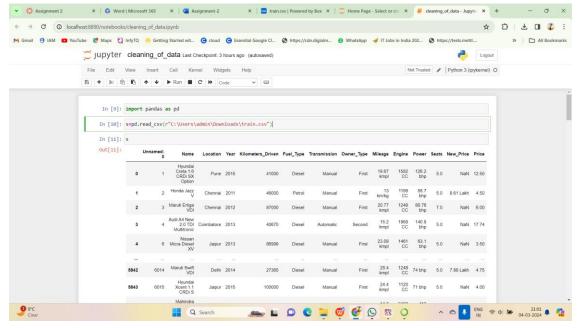
Data Set

Data:https://app.box.com/s/jm6pw202asu4xd3uypwtry2rqk691y1i

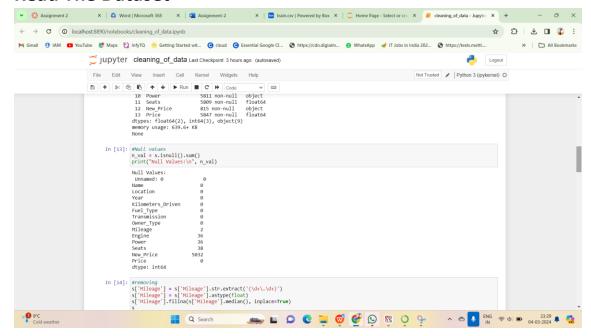


Data Clean:

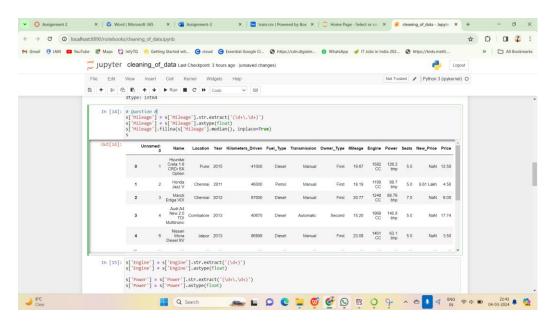
a) Look for the missing values in all the columns and either impute them (replace with mean, median, or mode) or drop them. Justify your action for this task.

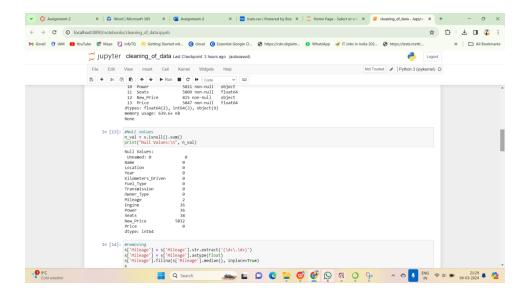


Read The Dataset

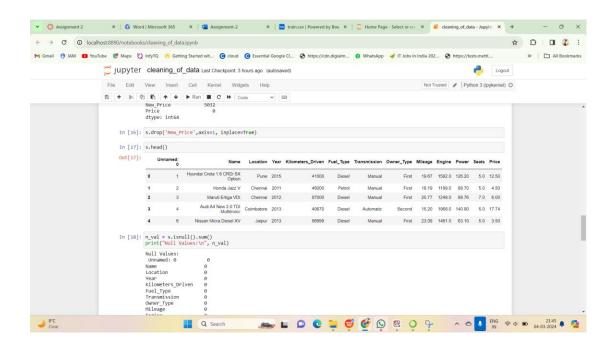


B)Remove the units from some of the attributes and only keep the numerical values (for example remove kmpl from "Mileage", CC from "Engine", bhp from "Power", and lakh from "New price").

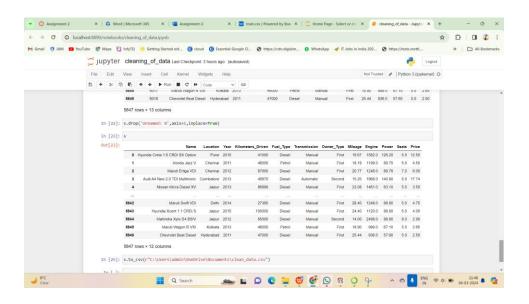




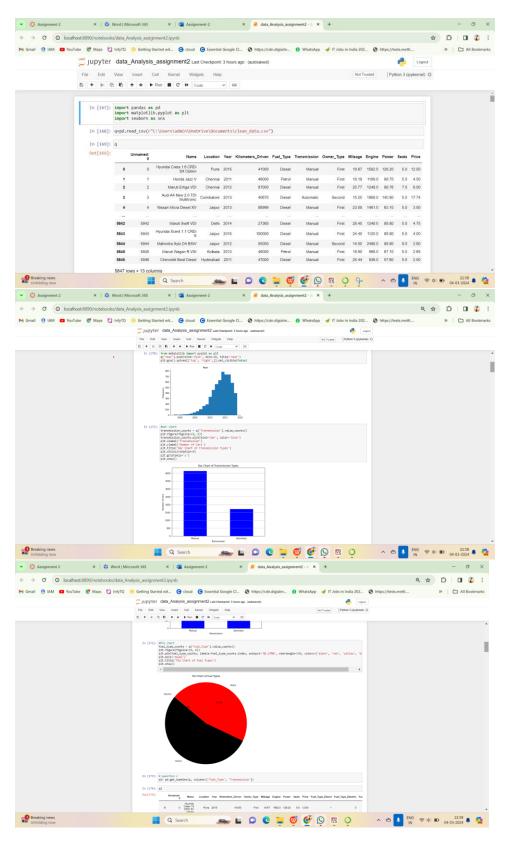
After Removing the null values



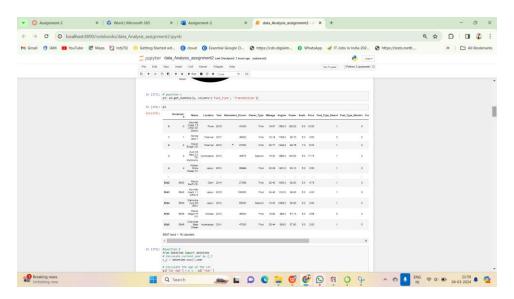
Preprocessed data to clean data:



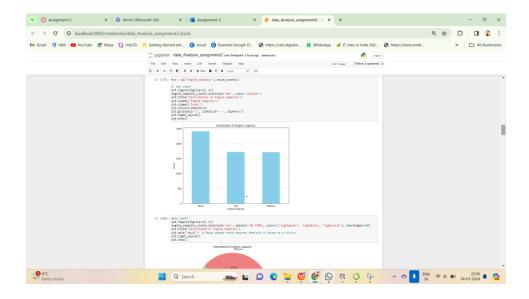
DATA ANALYSIS

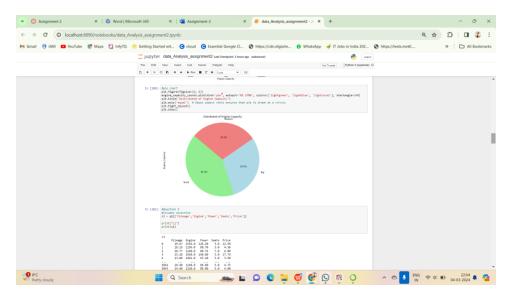


C)Change the categorical variables ("Fuel_Type" and "Transmission") into numerical one hot encoded value.



- d) Create one more feature and add this column to the dataset (you can use mutate function in R for this). For example, you can calculate the current age of the car by subtracting "Year" value from the current year.
 - Added new column "Car_Age" and "Engine_Capacity".





E)Perform select, filter, rename, mutate, arrange and summarize with group by operations (or their equivalent operations in python) on this dataset.

