Geely Auto

An analysis on auto mobile pricing predictions.

Data of 205 cars was used to analyse and acertain which variables are significant in predicting the price of a car and how well these variables describe the price of a car.

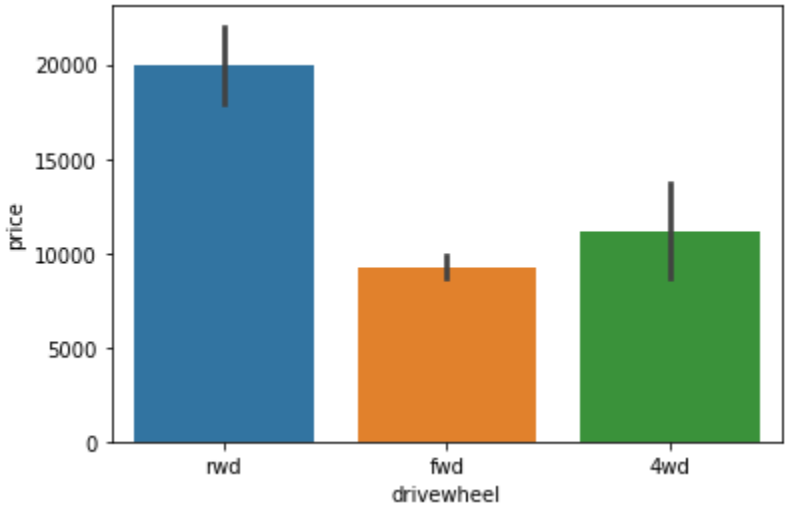
Most of the cars in this sample happen to be toyota and peugeot 504

The categorical variables collected for this prediction excercise are;
car name, fuel type, aspiration,door number, car body, fuel system, engine location and drive wheel.

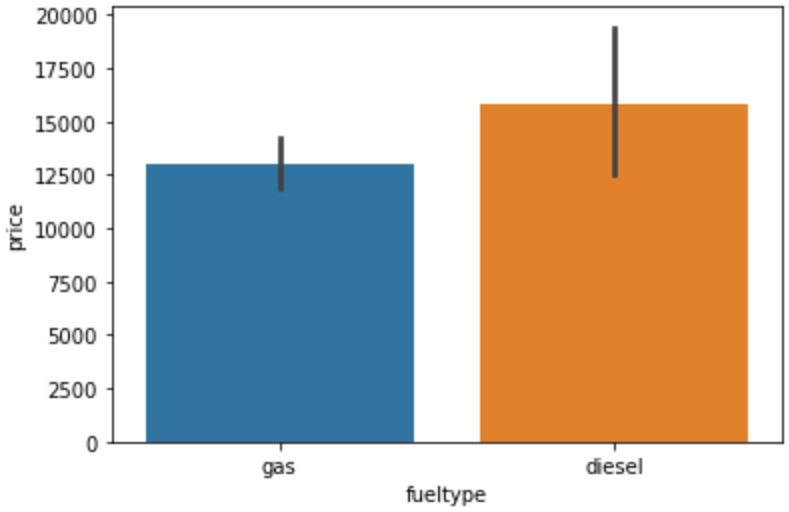
While the numeric variables are; car ID,symboling,wheel base,car length, car width, car hight, curb weight, engine size,bore ratio, stroke, compression ratio, horse power, peak rmp, city mpg, highway mpg and price.

Bivariate Analysis

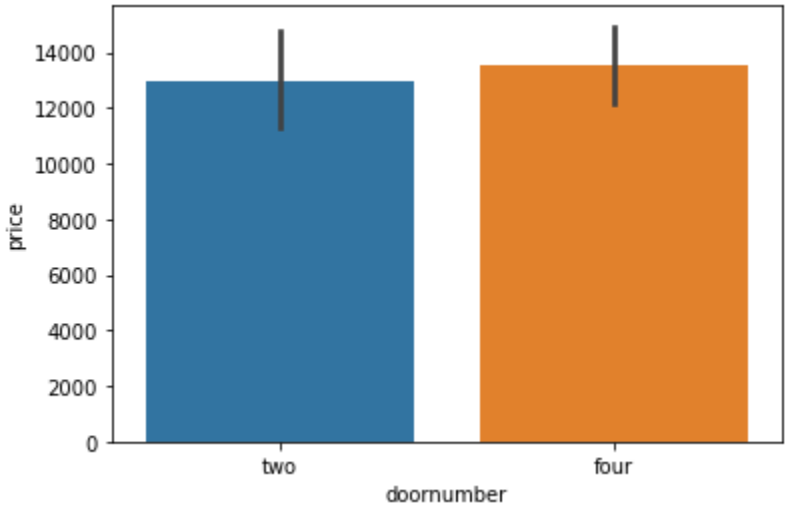
Bivariate analysis of most of the categoral variables shows conciderable diffrence in price as seen in these illustrations.



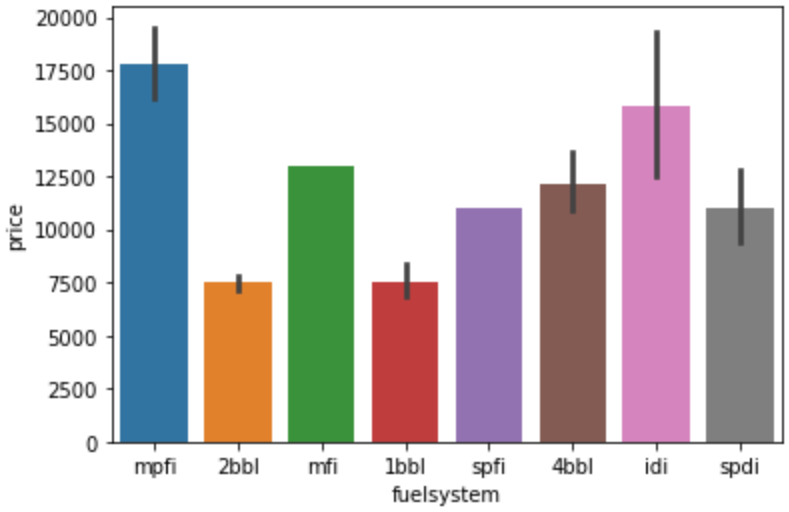
*Diffrence in **price** of various **wheeldrives.***



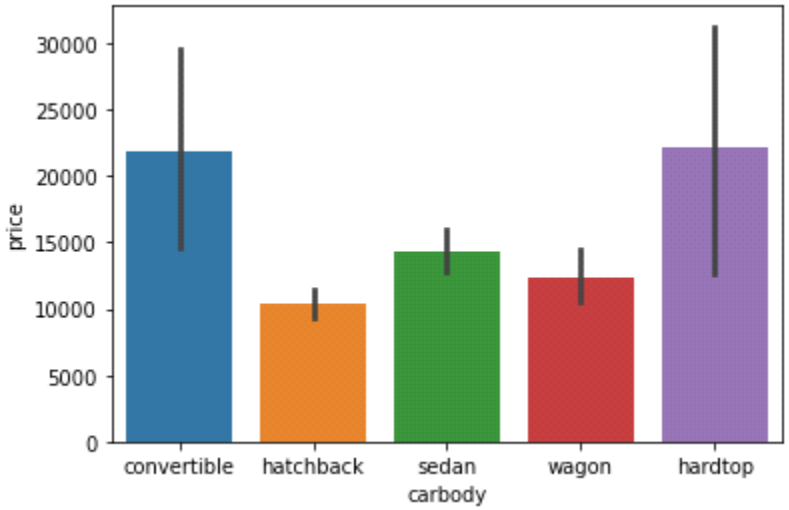
Price** against **fuel types.



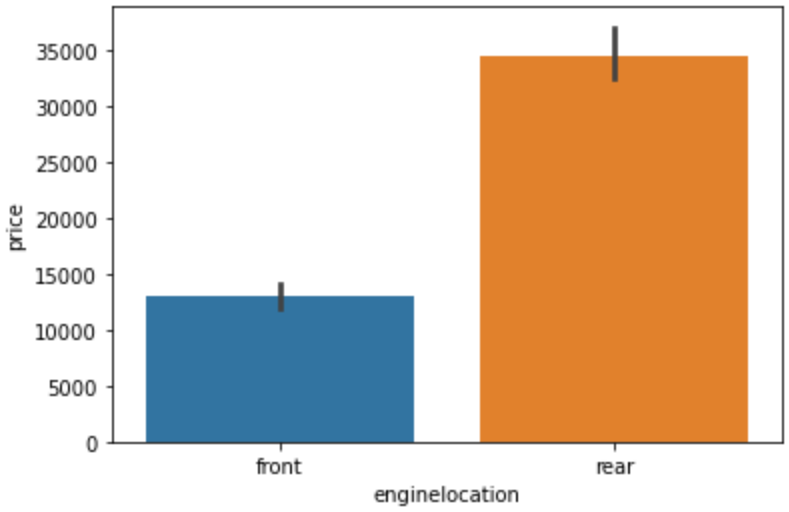
Price** against **door number



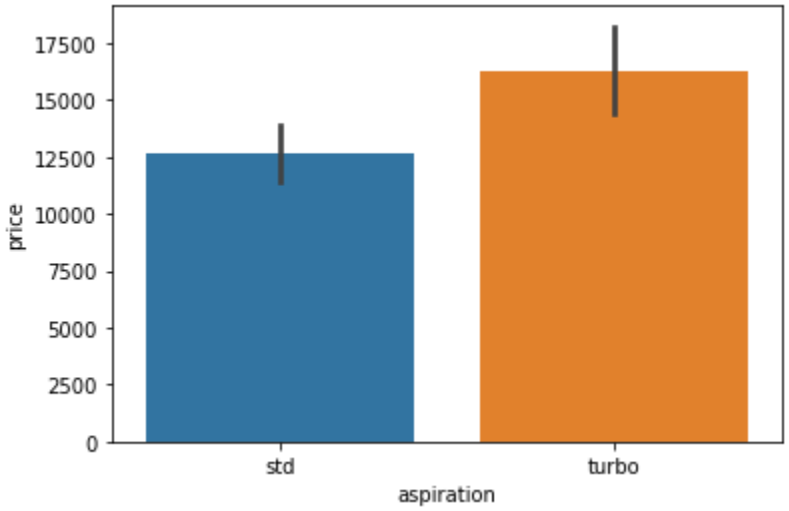
Price against ***fuel system***



- *Diffrence in **price** of various **carbodies**.*



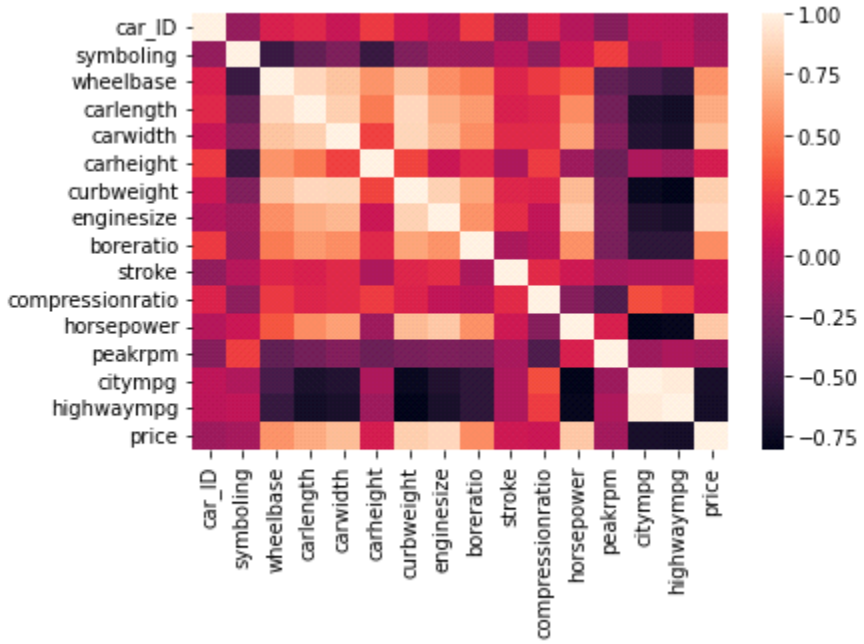
- *Diffrence in **price** of cars with their engines at the **rear** and the **front.***



- ***Price** against **aspirations***

Multivariate Analysis

A heat map here shows the positive and negative relationships between the numeric variables.



Areas with a lighter shade shows a positive relationship like car weight and curb weight.

The darker shades shows a negative relationship.like city mpg and highway mpg.

Buisness conclusion and insights.

From the above information, we can deduce that the variables affecting the price of cars are; car name, fuel type, aspiration,door number, car body, fuel system, engine location and drive wheel,horse power, bore ratio, engine size, curb weight and car width.

are, it would be more profitale to direct intrests in manifacturing;

- Convertible and hard top car bodies
- Rear wheel drive veichles
- Cars that cars with their engines at the rear.
- Cars that drive on diesel fuel.
- Cars with four doors(even though theres no much price diffrence with those of 2 doors.
- Turbo driven cars.
- Out of eight fuel systems; mpfi,idi,mfi,and 4bbl fuel systems are the most profitable.

It should also be notted that toyotas are the most common cars in this sample are toyota's followed by peugeot 504's. Therefor the major competitors.

Also, the accuracy of this model is 100%.