**DATS 6103: Data Ming**

**Professor Edwin Lo**

Final Project:

The Analysis of Used Vehicle with a Predicted Value

Team B

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**Abstract and Introduction**

Second-hand vehicle or used vehicle has a huge market base. As it is feasible and cheaper, more and more people consider buying a used vehicle instead of buying a new one. However, the main reason for the huge used car market is that vehicle cannot maintain its value. The price of one vehicle will reduce because of its age, mileage, damage and so on.

Using the UsedCar dataset, our team could go into an extensive exploration of the this market. We started by feature processing the data. This dataset contains 31 variables, and more than 200,000 observations. After filtrate variables, only 15 variables remain. (See Table: Data Dictionary). After this, we could start analyzing this data set and raised up some questions.

|  |  |
| --- | --- |
| **Data Dictionary** | |
| **Field** | **Description** |
| SaleID | Trade ID，Unique |
| name | Name of car trade |
| regDate | Date of car registration |
| model | Car model |
| brand | Car brand |
| bodyType | Limousine：0，Minicar：1，Vans：2，Bus：3，Open car：4，coupe：5，Commercial vehcle：6，Mixer truck：7 |
| fuelType | Gasoline：0，Diesel：1，Liquefied petroleum gas(LPG)：2，Natural gas：3，Hybrid power：4，Others：5，Electricity：6 |
| gearbox | Manual shift：0，Automatic shift：1 |
| power | Power of engine：range [ 0, 600 ] |
| kilometer | Travel distance，(10,000km) |
| notRepairedDamage | Whether exist damage that haven't reqaired：Yes：0，No：1 |
| regionCode | Ragion ID |
| seller | Seller：individual：0，others：1 |
| offerType | The type of offering price ：Offered Price：0，Seek Price：1 |
| creatDate | Date of selling |
| price | Price, Response |

**Research Questions:**

To better understand this market, our team has collected data and decided to do statistical analysis on the used car market. The following questions are the main subjects that our team focus on:

* Understand and analyze what factors have impact on the value of a used vehicle most.

1. The influence of a vehicle’s brand, body type, fuel type and gearbox type on the value of the vehicle.
2. The influence of a vehicle’s milage, engine power and whether the car has been damaged or not on the value of the vehicle.

* Predict the value of each used vehicle in our dataset.
* Give suggestions on how to buy a used vehicle with high-cost effectiveness.

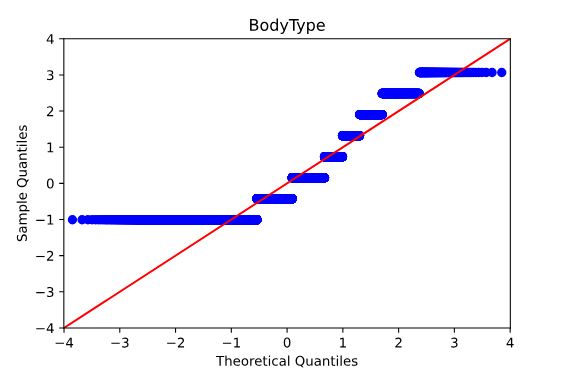
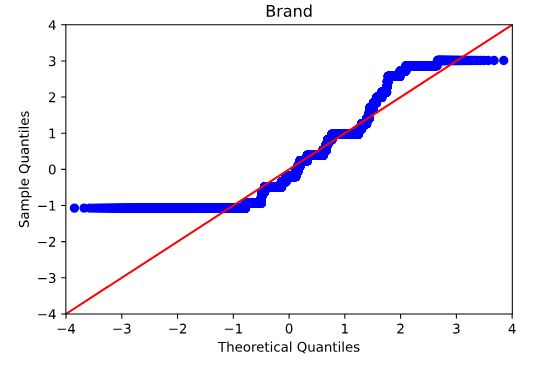
**Question 1: Car Type Factors Impact**

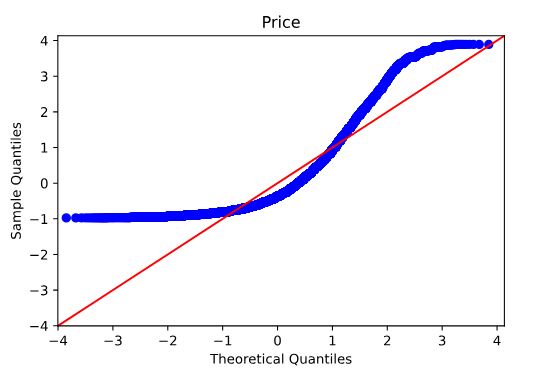
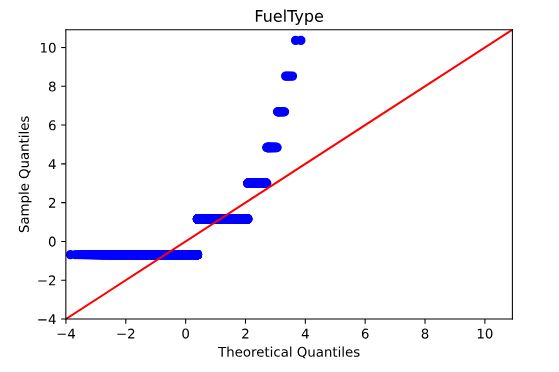
**Vehicle’s brand, Body type, Fuel type and Gearbox type Impact on Value**

1. EDA

-Data Processing

We started by dropping NA values in each columns. Then we further purified the data, removing observations with value outside the range, selecting only features that required in this questions. And changed data type for building a model.

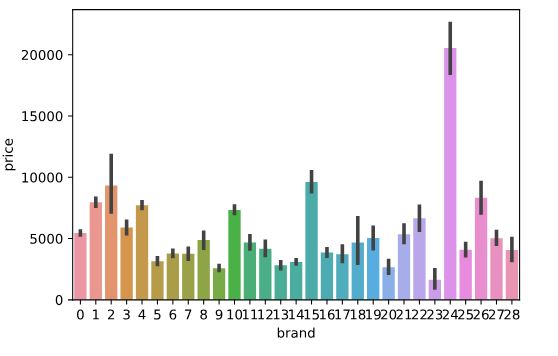
QQ-Plot

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Since the datatype of those variables except price are category, the QQ-plots seems to be a little strange. So we choose to analyze variables one by one.

-Visualization

![图表, 条形图, 直方图

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFhcm9uAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMxNwAAkpIAAgAAAAMxNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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图表, 箱线图

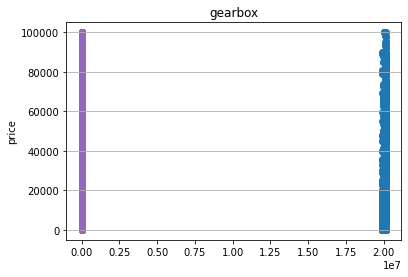
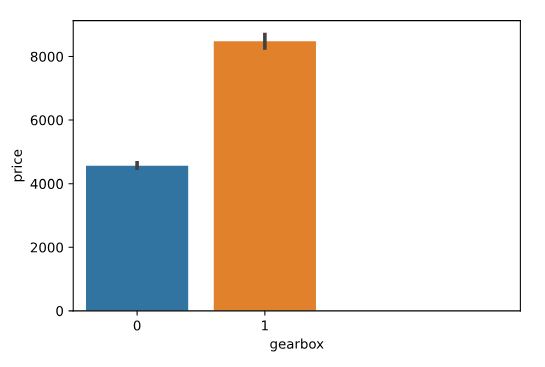
描述已自动生成图表, 条形图

描述已自动生成BodyType:

图表, 条形图

描述已自动生成图表, 箱线图

描述已自动生成FuelType:

GearBox:

Brand

This histogram shows the frequency of each brand and it is almost left skewed. However, the price vs brand plot implies there is no direct relation between the frequency of brand and the price.

BodyType

The left is box plot and the middle is the histogram of frequency of each body type. We can see it is left skewed.

FuelType

It has the similar situation as BodyType, it is left skewed with some outliers more than 3. But most fuel type is still in 0,1,2. Here zero is gasoline , 1 is diesel, and 2 is liquefied petroleum gas.

GearBox, 0 is manual shift and 1 is automatic shift.

The scatter plot implies automatic shift has a higher frequency and the histogram also shows a higher average price for automatic shift.

1. Model

After exploring the data, we decided to run 5 models on this. In order to select the best model, we used train-test split and cross validation to evaluate each model.

![手机屏幕截图

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFhcm9uAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3MgAAkpIAAgAAAAM3MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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文本

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Train-Test Split

In the train-test split, logistic regression has the highest accuracy. The R-squared is 0.183

![表格

描述已自动生成](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFhcm9uAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM5MgAAkpIAAgAAAAM5MgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Validation

In the cross validation, linear model has the highest accuracy. The R-squared is 0.285

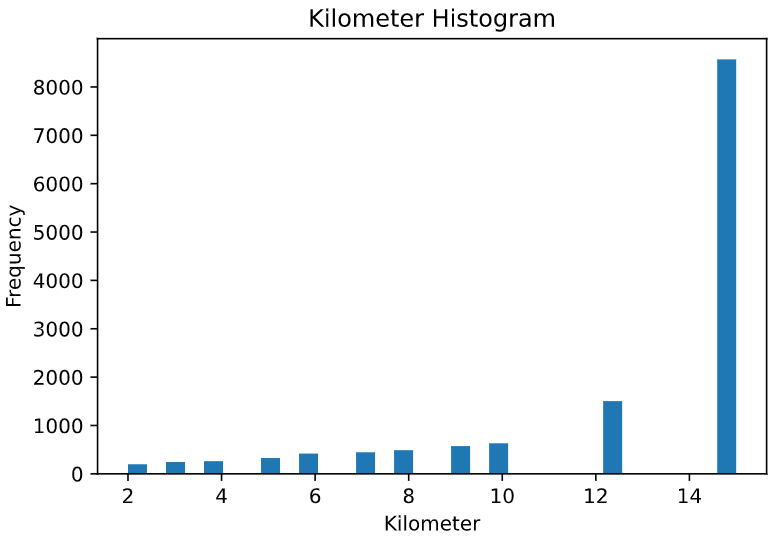
Since linear regression has a higher R-squared. And the model is built on less than 20,000 observations. We think linear regression fits better in this case. And the final predicted price using this model is 5423.949454933.

In conclusion of Q1, this linear model is still not very satisfying. Car model, brand, body type, fuel type and gear box are all categorical and they don’t have a enough influence on a used car price.

**Question 2: Car Damage Factors Impact**

**Vehicle’s milage, Engine power and whether the Car has been damaged or not**

1.Data Processing

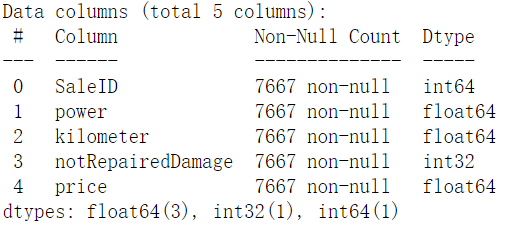
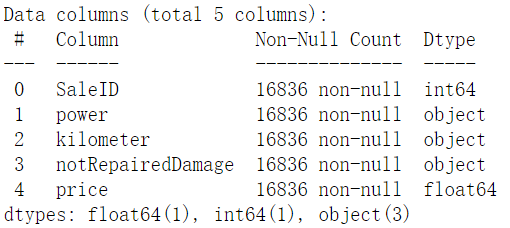
First, we select and create a new dataset and check it structure. After we drop all NA, we have 16k observations remaining.

However, when we check the normality, we find our variable “kilometer” shows an obvious stratification and many extreme values. We consider this might because the variable comes from the result of a multiple-choice question, so people will only choose a certain answer. And the last choice might be the kilometer that larger than 15km, so we have so many "15km" at here.

In order to continue our analysis, we choose to drop some of cars' "kilometer" equal to 15.

When we dropped all the outliers and changed their data type, there are 7667 observations remaining.

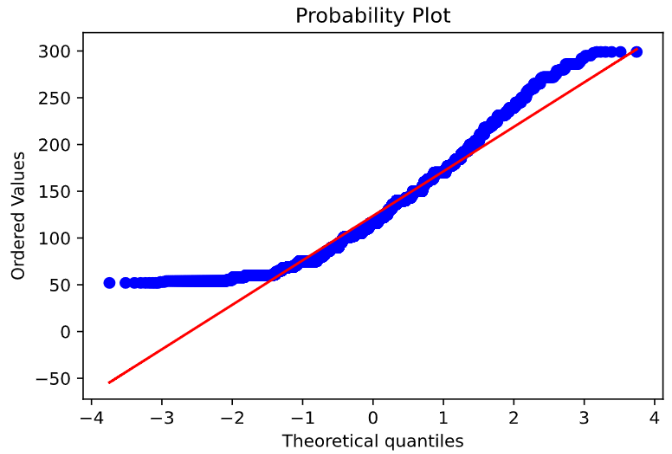
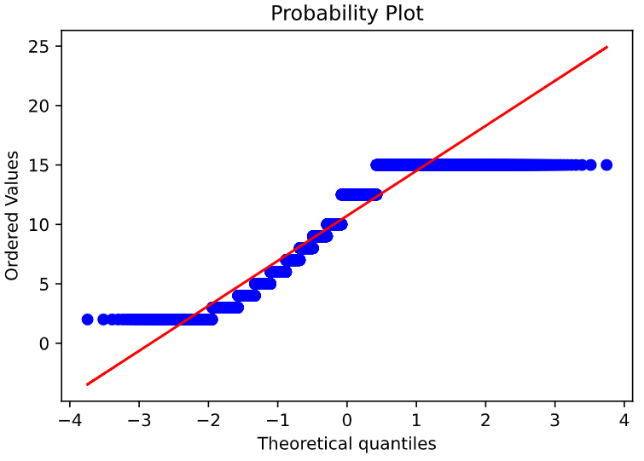
Before Processing: After Processing:

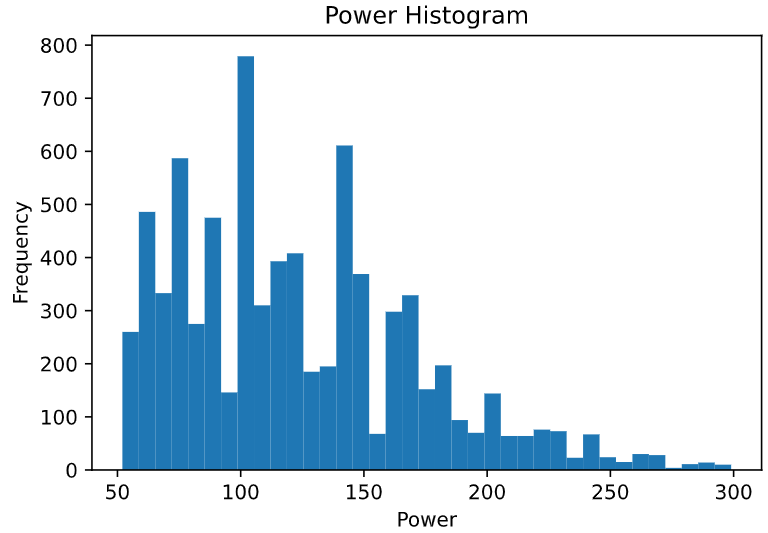
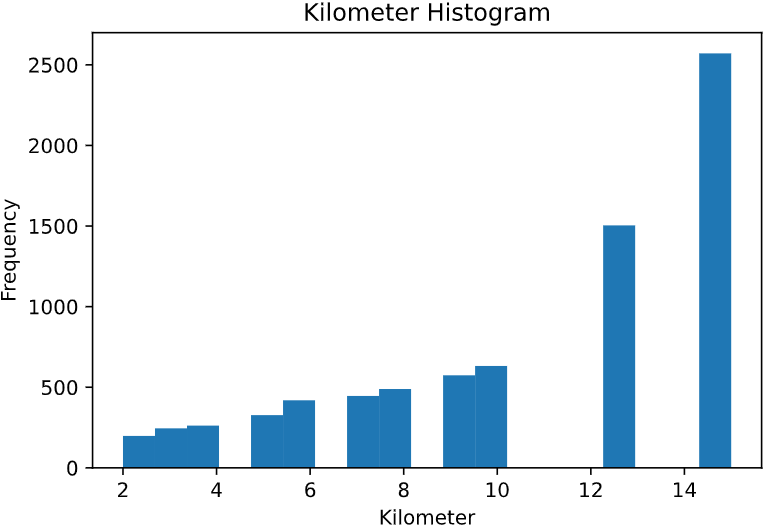


2.EDA

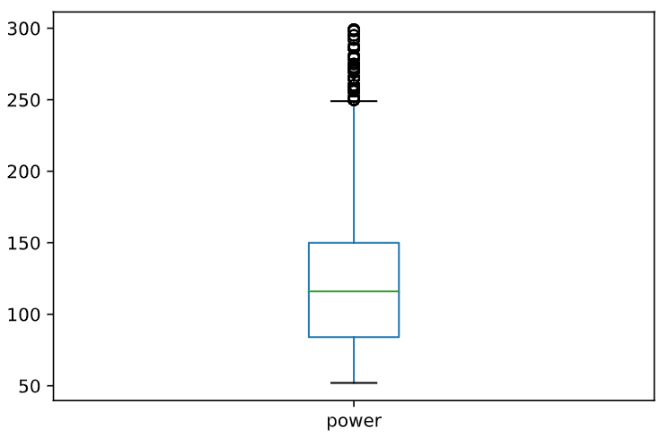
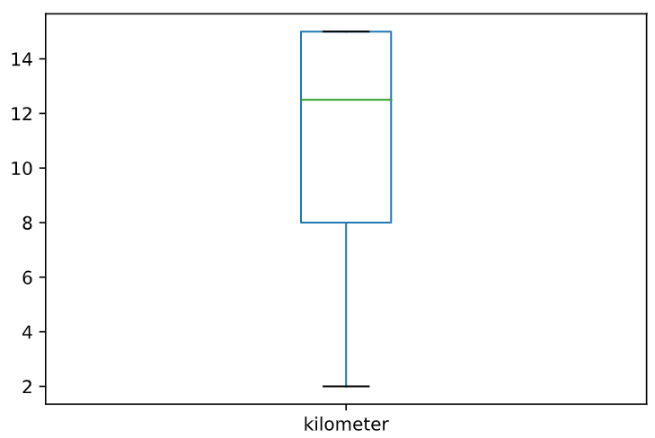
Normality Check

Power Kilometer

QQ Plot: 

Histogram:

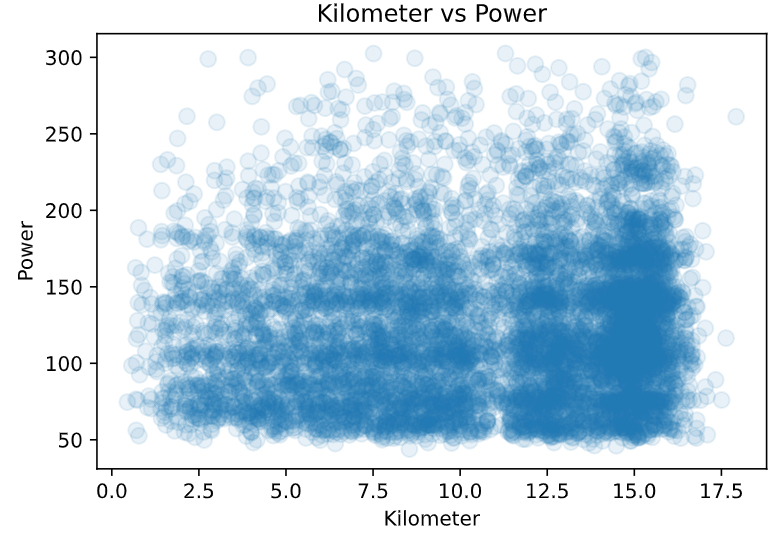
Boxplot:



The power’s QQ plot looks good, and kilometer is a little stratified but accepted.

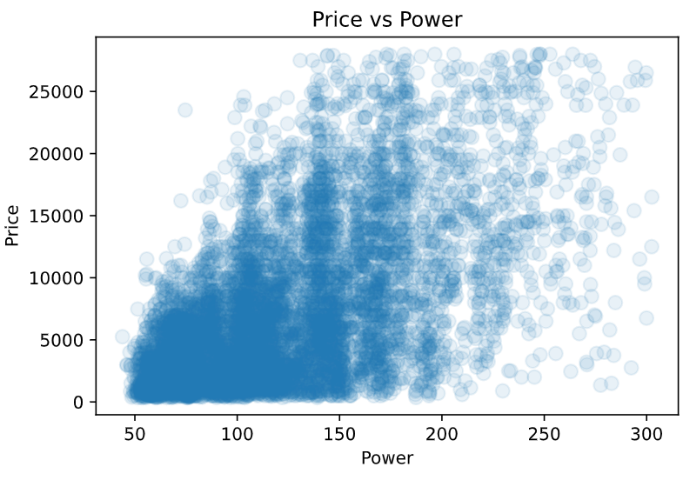
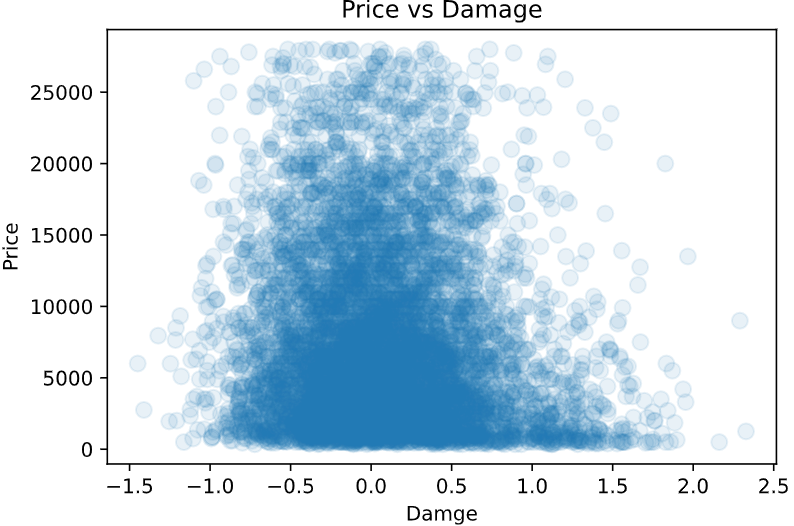
The power histogram is more like left skewed and kilometer is right skewed. This means there are more low price cars and more long kilometers cars in the market.

Their boxplots have similar situation like histogram and power has some outliers and kilometer has too many large values.

3.Visualization

First, we checked the relation between Power and kilometer because we want to check whether this power is the “the power before using” or “after using.” If it is before using, when the travel distance become larger, the power of engine should reduce.

But scatter plot shows that there is no clear relation between, so we can assume this power is before using.



Then, then, we check the scatter plot of damage and power. We can find that when cars have some not repaired damage, price will decrease a lot. And if cars have larger power, its price will increase obviously.

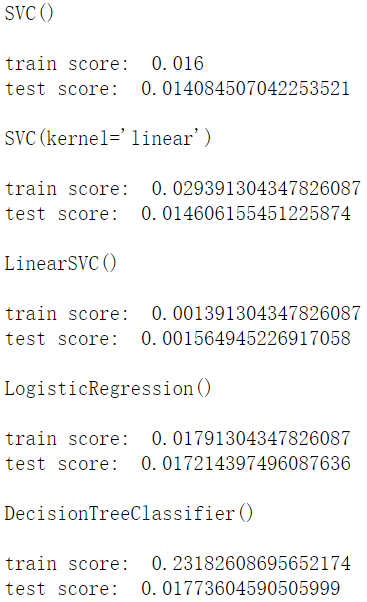
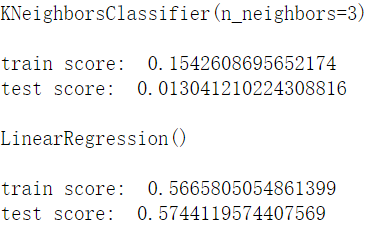


Besides, we make a three dimention plot. From this plot, we can see these regression lines show the direct proportion between price and power and this proportion will be lower if cars have damage.

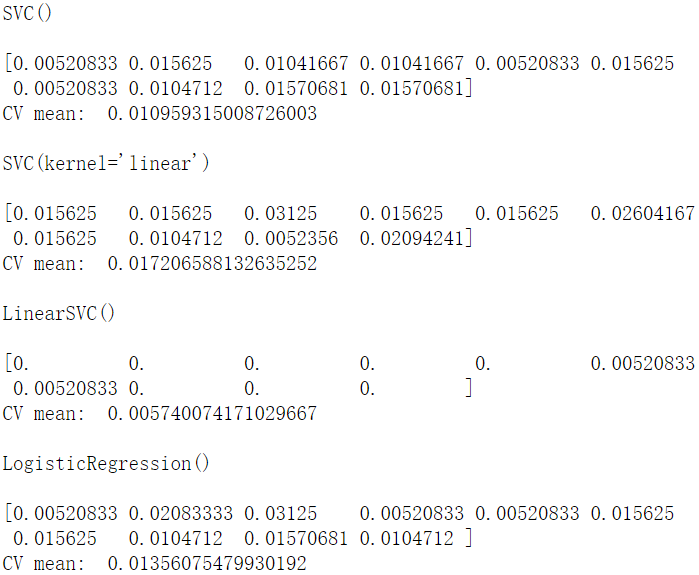
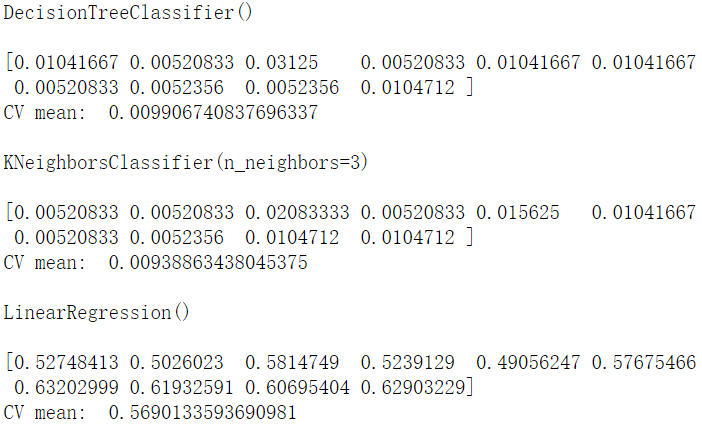
4.Model Prediction

In the prediction, we try 7 models within two evaluation: Train-Test Split and Cross Validation. These 7 model including SVC(), logistic regression, KNN at k=3, decision tree and linear regression.

Train-Test Split

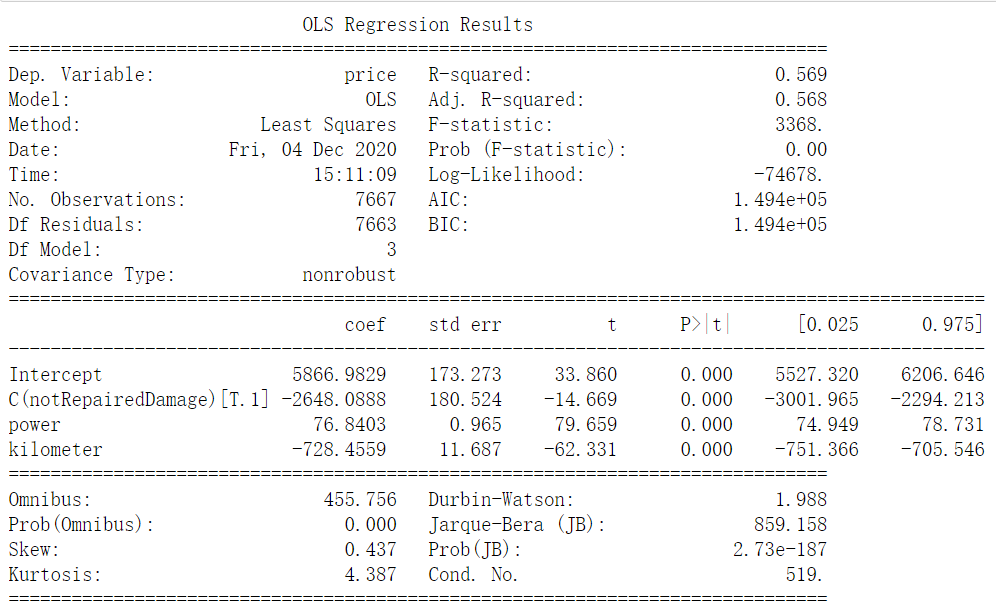


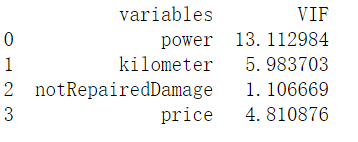
From the result of train-test split, we can find **linear regression** has the highest score that is 0.5744.

Cross Validation:

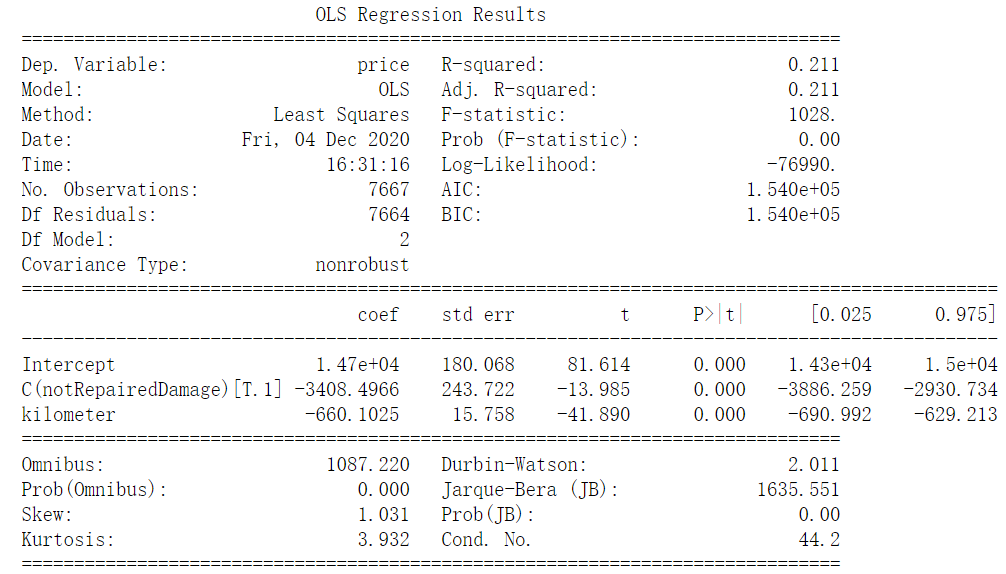
From the cross validation, we get the similar result that **linear regression** has the highest score.

Therefore, we build the linear regression for this model and check its summary.



From this summary we can find, our r square is 0.569. And our p-value are all less than 0.05, which mean they are significant. Our predicted price will be 7366.5488457.

However, when I checked VIF, I found power has a VIF larger than 5, which means it might have high correlation with other variables. So we dropped power, and try again.



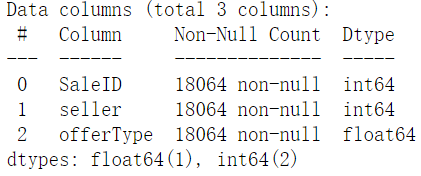
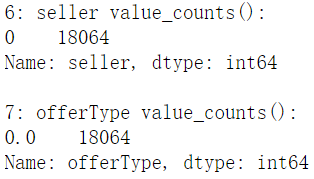
At this time, our fitted value is still 7366, this means dropping power will not affect our prediction too much. However, our r square become 0.211. This is not very high, so this model is not efficient enough. I believe this is because we only have three variables here and they don’t have enough influence to affect price.

**Question 3: Market Behavior Impact**

**Vehicle’s seller and offerType**

We also tried to explore the affect of market behavior but after sampling and data processing,

We found these two variables only have 0, so we cancelled this question. This also tell us that most used cars are bought by individuals and most cars are sold.

****

**Question 4: Suggestions on Buying a Used Vehicle**

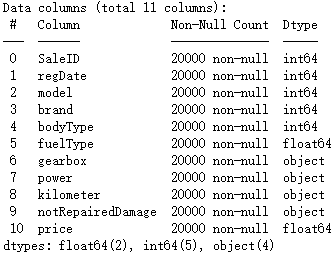
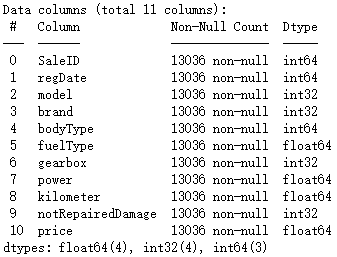
**Full Model**

1. EDA

Data Processing

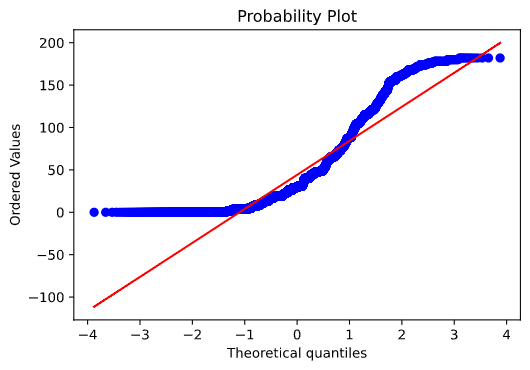
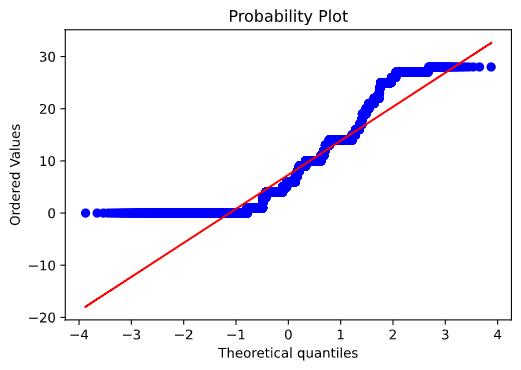
We first picked out the variables (“brand”, “bodyType”, “fuelType”, “gearbox”, “power”, “kilometer”, “notRepairedDamage” and “price”) to make a subset. It is a combination of the subset from question 1 and question 2. Then, we changed “gearbox” variable from object type to 0 and 1 (type int). Also, we changed “notRepairedDamage” into 0 and 1. Furthermore, we converted “power” and “kilometer” to float type and dropped the abnormal data that is 0 in these two variables. In addition, we converted “model” and “brand” to integer type. We also dropped NA values and dropped data that is greater than 6 for “fuelType” and the data greater than 7 for “bodyType”. Finally, we dropped the data that has negative values and removed the outliers from the subset.

Before Processing After Processing

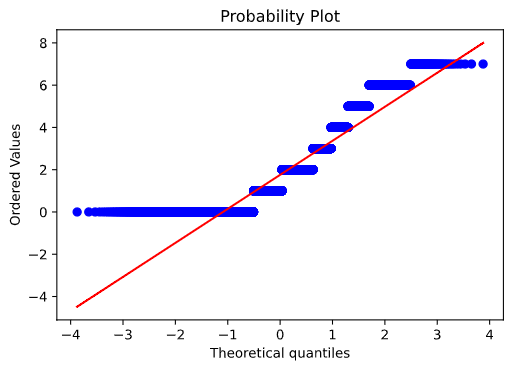
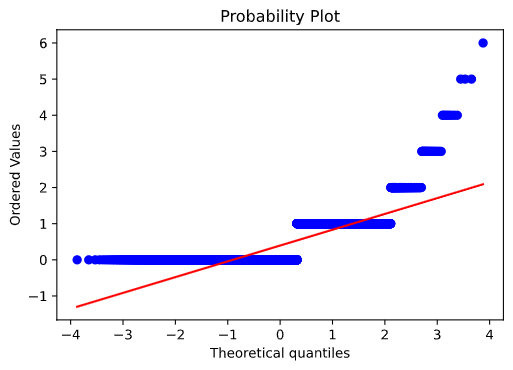
 

QQ-Plot (use QQ-plot and histogram to check the subset)

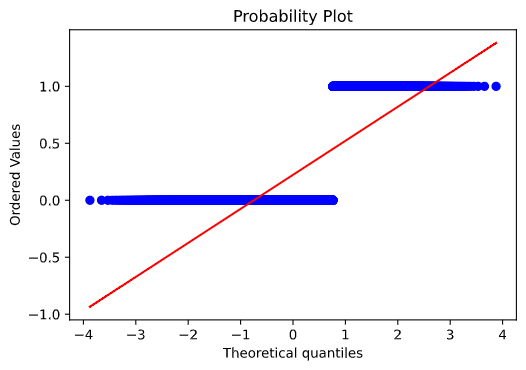
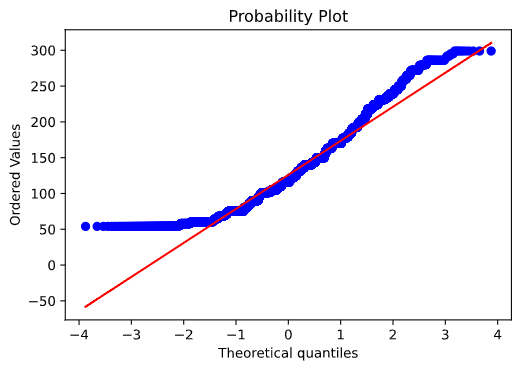
model: brand:

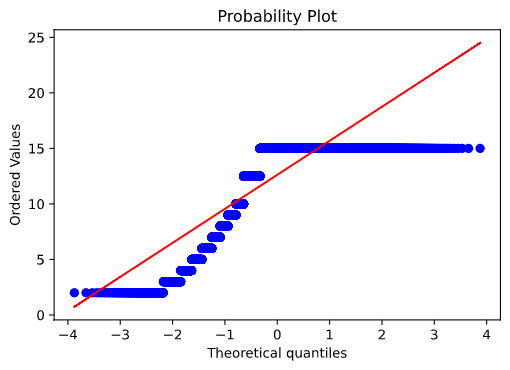
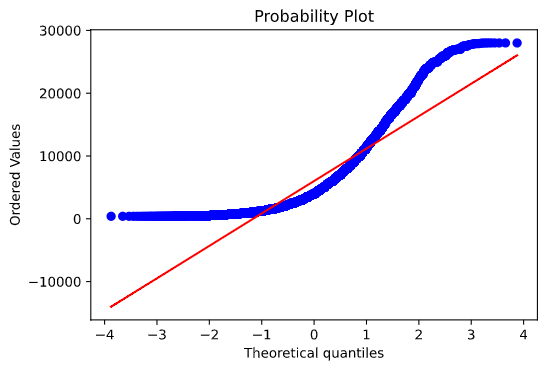
bodyType: fuelType:

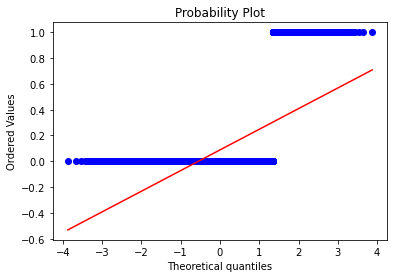
gearbox: power:

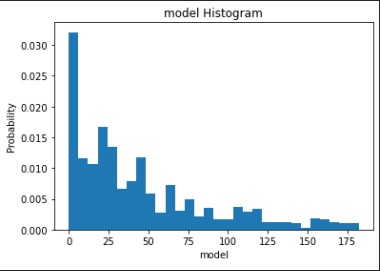
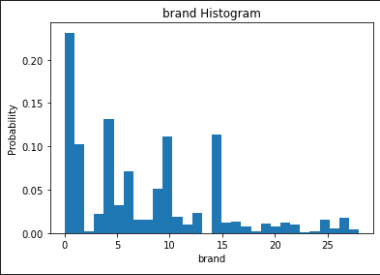
kilometer: price:

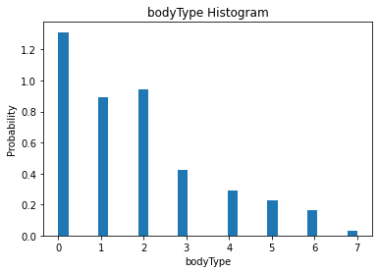
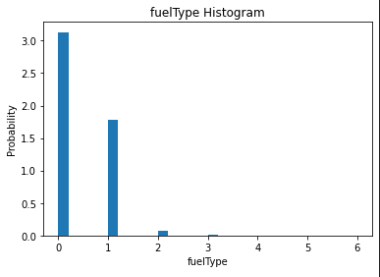
 

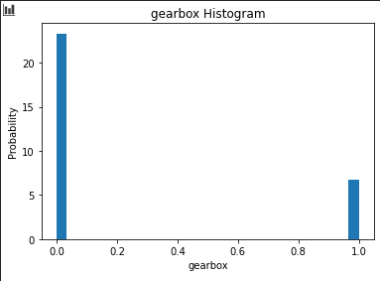
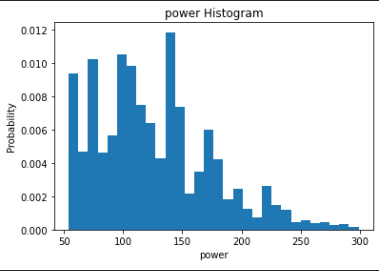
notRepairedDamage:

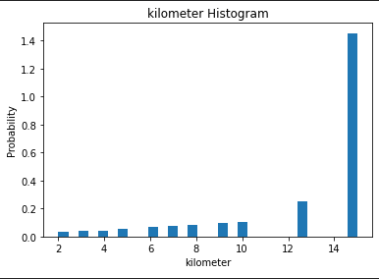
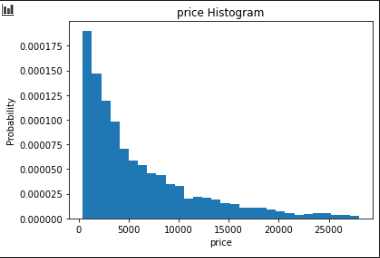


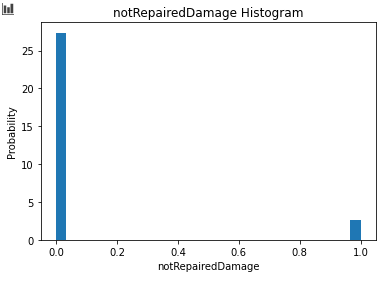
Histogram:

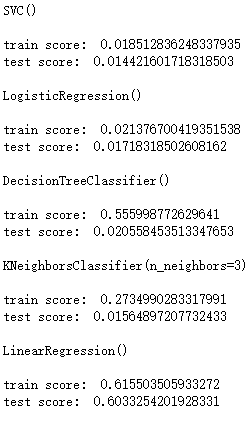


QQ-Plot and Histograms shows subset has similar trends with the data in Q1 and Q2.

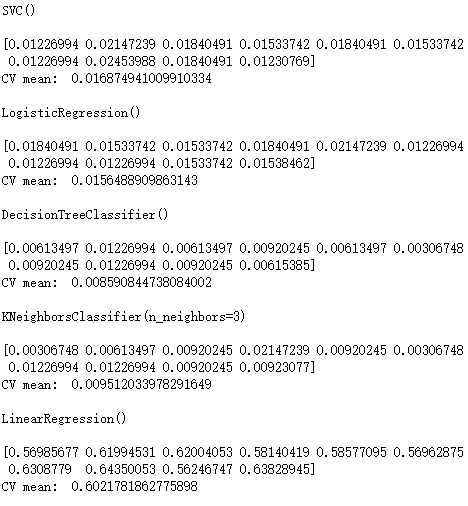
1. Model Prediction

For the full model, we tried 5 different models using both Train-Test Split and Cross Validation methods. To be specific, the 5 models are SVC, Logistic Regression, Decision Tree, KNN (k = 3) and Linear Regression.

Train-Test Split:



Cross Validation:



We can see that Linear Regression has the best performance in both Train-Test split and Cross Validation. In this case, we will try to make the full model using linear regression.

1. Linear Regression Model

Full Model

OLS Regression Results

==============================================================================

Dep. Variable: price R-squared: 0.655

Model: OLS Adj. R-squared: 0.653

Method: Least Squares F-statistic: 547.3

Date: Sun, 13 Dec 2020 Prob (F-statistic): 0.00

Time: 20:35:44 Log-Likelihood: -1.2420e+05

No. Observations: 13036 AIC: 2.485e+05

Df Residuals: 12990 BIC: 2.488e+05

Df Model: 45

Covariance Type: nonrobust

=============================================================================================

coef std err t P>|t| [0.025 0.975]

---------------------------------------------------------------------------------------------

Intercept 8855.9229 167.588 52.843 0.000 8527.425 9184.421

C(brand)[T.1] 226.6963 120.626 1.879 0.060 -9.748 463.140

C(brand)[T.2] -3400.5742 716.712 -4.745 0.000 -4805.435 -1995.713

C(brand)[T.3] 127.8690 216.310 0.591 0.554 -296.130 551.868

C(brand)[T.4] -472.2055 115.387 -4.092 0.000 -698.382 -246.030

C(brand)[T.5] -2230.4243 182.262 -12.237 0.000 -2587.684 -1873.165

C(brand)[T.6] -1766.1085 130.090 -13.576 0.000 -2021.103 -1511.114

C(brand)[T.7] -1793.5766 250.888 -7.149 0.000 -2285.354 -1301.799

C(brand)[T.8] -1617.5662 251.799 -6.424 0.000 -2111.129 -1124.003

C(brand)[T.9] -2052.1756 150.212 -13.662 0.000 -2346.614 -1757.737

C(brand)[T.10] -800.9441 118.078 -6.783 0.000 -1032.394 -569.494

C(brand)[T.11] -763.1753 233.504 -3.268 0.001 -1220.877 -305.474

C(brand)[T.12] -1097.9232 306.405 -3.583 0.000 -1698.522 -497.324

C(brand)[T.13] -1629.1697 209.743 -7.767 0.000 -2040.297 -1218.043

C(brand)[T.14] -1753.7490 110.507 -15.870 0.000 -1970.359 -1537.139

C(brand)[T.15] 984.3009 283.296 3.474 0.001 428.999 1539.603

C(brand)[T.16] -2381.3275 283.825 -8.390 0.000 -2937.666 -1824.989

C(brand)[T.17] -3148.5084 358.684 -8.778 0.000 -3851.582 -2445.435

C(brand)[T.18] -1299.8528 749.021 -1.735 0.083 -2768.043 168.337

C(brand)[T.19] -1779.6477 307.387 -5.790 0.000 -2382.172 -1177.124

C(brand)[T.20] -2285.5354 355.768 -6.424 0.000 -2982.892 -1588.179

C(brand)[T.21] -2098.8616 285.301 -7.357 0.000 -2658.093 -1539.630

C(brand)[T.22] -2086.9721 317.578 -6.572 0.000 -2709.472 -1464.473

C(brand)[T.23] -2745.7984 1006.975 -2.727 0.006 -4719.617 -771.980

C(brand)[T.24] 4446.5664 780.871 5.694 0.000 2915.946 5977.187

C(brand)[T.25] -1828.3867 249.805 -7.319 0.000 -2318.040 -1338.733

C(brand)[T.26] -2590.4065 441.867 -5.862 0.000 -3456.531 -1724.282

C(brand)[T.27] -1586.4830 239.765 -6.617 0.000 -2056.458 -1116.508

C(brand)[T.28] -3642.5307 487.907 -7.466 0.000 -4598.901 -2686.161

C(bodyType)[T.1] 730.2650 97.992 7.452 0.000 538.187 922.343

C(bodyType)[T.2] -148.0185 85.960 -1.722 0.085 -316.513 20.476

C(bodyType)[T.3] 1073.7807 114.596 9.370 0.000 849.155 1298.406

C(bodyType)[T.4] 1665.5809 129.098 12.902 0.000 1412.530 1918.632

C(bodyType)[T.5] 904.8551 140.545 6.438 0.000 629.367 1180.343

C(bodyType)[T.6] 2723.9492 174.439 15.615 0.000 2382.023 3065.876

C(bodyType)[T.7] -417.6189 372.887 -1.120 0.263 -1148.533 313.295

C(fuelType)[T.1.0] 3182.1952 70.346 45.236 0.000 3044.307 3320.084

C(fuelType)[T.2.0] -509.2178 254.187 -2.003 0.045 -1007.462 -10.974

C(fuelType)[T.3.0] 1571.5585 592.698 2.652 0.008 409.784 2733.333

C(fuelType)[T.4.0] 4769.7857 1126.382 4.235 0.000 2561.913 6977.659

C(fuelType)[T.5.0] 3371.0338 1936.870 1.740 0.082 -425.515 7167.583

C(fuelType)[T.6.0] 7861.5721 3331.120 2.360 0.018 1332.089 1.44e+04

C(gearbox)[T.1] 305.7471 84.246 3.629 0.000 140.613 470.881

C(notRepairedDamage)[T.1] -2130.3378 103.652 -20.553 0.000 -2333.511 -1927.165

power 52.3208 0.894 58.533 0.000 50.569 54.073

kilometer -796.2419 8.323 -95.670 0.000 -812.556 -779.928

==============================================================================

Omnibus: 1172.875 Durbin-Watson: 2.008

Prob(Omnibus): 0.000 Jarque-Bera (JB): 2754.816

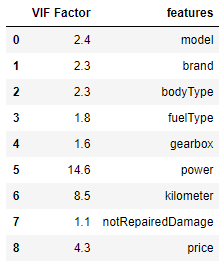
Skew: 0.551 Prob(JB): 0.00

Kurtosis: 4.964 Cond. No. 1.55e+04

==============================================================================

The full model has a decent adjusted R-square value 0.653. Our predicted price will be 6015.28. We also did a VIF test on this full model and found that power has a very high VIF value 14.6. So, we decided to drop the power variable.

VIF:



Adjusted Linear Model:

OLS Regression Results

==============================================================================

Dep. Variable: price R-squared: 0.564

Model: OLS Adj. R-squared: 0.562

Method: Least Squares F-statistic: 381.3

Date: Sun, 13 Dec 2020 Prob (F-statistic): 0.00

Time: 20:35:45 Log-Likelihood: -1.2573e+05

No. Observations: 13036 AIC: 2.515e+05

Df Residuals: 12991 BIC: 2.519e+05

Df Model: 44

Covariance Type: nonrobust

=============================================================================================

coef std err t P>|t| [0.025 0.975]

---------------------------------------------------------------------------------------------

Intercept 1.488e+04 148.745 100.008 0.000 1.46e+04 1.52e+04

C(brand)[T.1] 1916.5180 131.658 14.557 0.000 1658.450 2174.586

C(brand)[T.2] -1593.0964 804.925 -1.979 0.048 -3170.868 -15.325

C(brand)[T.3] -75.2888 243.128 -0.310 0.757 -551.855 401.278

C(brand)[T.4] 1701.2914 122.810 13.853 0.000 1460.566 1942.016

C(brand)[T.5] -2260.9491 204.884 -11.035 0.000 -2662.551 -1859.347

C(brand)[T.6] -1647.3560 146.219 -11.266 0.000 -1933.967 -1360.745

C(brand)[T.7] -1222.7087 281.816 -4.339 0.000 -1775.110 -670.308

C(brand)[T.8] -1707.5504 283.048 -6.033 0.000 -2262.366 -1152.735

C(brand)[T.9] -2200.9897 168.833 -13.036 0.000 -2531.928 -1870.052

C(brand)[T.10] 391.5160 130.743 2.995 0.003 135.240 647.792

C(brand)[T.11] -143.9093 262.218 -0.549 0.583 -657.894 370.076

C(brand)[T.12] -511.4073 344.253 -1.486 0.137 -1186.194 163.379

C(brand)[T.13] -1945.5948 235.699 -8.255 0.000 -2407.599 -1483.590

C(brand)[T.14] -1725.8703 124.222 -13.893 0.000 -1969.364 -1482.376

C(brand)[T.15] 2815.2311 316.513 8.895 0.000 2194.820 3435.642

C(brand)[T.16] -5066.8323 314.858 -16.092 0.000 -5684.000 -4449.664

C(brand)[T.17] -1462.4505 401.903 -3.639 0.000 -2250.240 -674.661

C(brand)[T.18] 217.9165 841.487 0.259 0.796 -1431.522 1867.355

C(brand)[T.19] -620.8988 344.824 -1.801 0.072 -1296.805 55.007

C(brand)[T.20] -2674.5847 399.857 -6.689 0.000 -3458.363 -1890.806

C(brand)[T.21] -2164.5662 320.711 -6.749 0.000 -2793.207 -1535.925

C(brand)[T.22] -2109.4289 356.997 -5.909 0.000 -2809.195 -1409.663

C(brand)[T.23] -2995.9571 1131.954 -2.647 0.008 -5214.754 -777.160

C(brand)[T.24] 1.078e+04 869.320 12.404 0.000 9078.677 1.25e+04

C(brand)[T.25] -2038.6958 280.782 -7.261 0.000 -2589.070 -1488.321

C(brand)[T.26] -1095.2303 495.883 -2.209 0.027 -2067.233 -123.227

C(brand)[T.27] -1383.5299 269.497 -5.134 0.000 -1911.784 -855.275

C(brand)[T.28] -2810.5219 548.236 -5.126 0.000 -3885.144 -1735.900

C(bodyType)[T.1] -1100.8462 104.391 -10.545 0.000 -1305.467 -896.225

C(bodyType)[T.2] 143.4526 96.468 1.487 0.137 -45.638 332.544

C(bodyType)[T.3] 1045.7461 128.819 8.118 0.000 793.241 1298.251

C(bodyType)[T.4] 2197.5710 144.762 15.181 0.000 1913.816 2481.326

C(bodyType)[T.5] 2173.3963 156.100 13.923 0.000 1867.417 2479.375

C(bodyType)[T.6] 4373.7124 193.515 22.601 0.000 3994.395 4753.030

C(bodyType)[T.7] -1029.5369 419.007 -2.457 0.014 -1850.852 -208.222

C(fuelType)[T.1.0] 3551.1637 78.760 45.089 0.000 3396.783 3705.544

C(fuelType)[T.2.0] 378.0333 285.229 1.325 0.185 -181.058 937.125

C(fuelType)[T.3.0] 1509.0114 666.265 2.265 0.024 203.034 2814.988

C(fuelType)[T.4.0] 2514.3341 1265.452 1.987 0.047 33.863 4994.805

C(fuelType)[T.5.0] 2947.6183 2177.267 1.354 0.176 -1320.144 7215.381

C(fuelType)[T.6.0] 8181.2859 3744.587 2.185 0.029 841.347 1.55e+04

C(gearbox)[T.1] 2088.9798 88.294 23.659 0.000 1915.911 2262.048

C(notRepairedDamage)[T.1] -2277.1908 116.484 -19.549 0.000 -2505.516 -2048.866

kilometer -827.5183 9.337 -88.632 0.000 -845.819 -809.217

==============================================================================

Omnibus: 1741.113 Durbin-Watson: 2.021

Prob(Omnibus): 0.000 Jarque-Bera (JB): 3933.107

Skew: 0.794 Prob(JB): 0.00

Kurtosis: 5.172 Cond. No. 1.51e+03

==============================================================================

The Adjusted R-square value for the adjusted model is 0.562 which is also acceptable. Furthermore, we could see that most variables have p-values less than 0.05. Also, we could see that changes of the variables would cause a change of thousands of dollars in price in most of the cases if looking at the coefficients.

**Conclusion**

From the results of the linear models, we can see that a used vehicle’s brand, body type, fuel type, gearbox type, damage history and milage have effects on its price. However, we cannot confirm the relation of a used vehicle’s power and price from the results. Specifically, we can see that different brands could have different prices. This is the same for a used vehicle’s body type. For example, a limousine is more expensive than a minicar. Also, from the results, we can see that different fuel type also have different impacts on used vehicle’s price. For example, a car using gasoline is less expensive than a car using diesel. If a vehicle has crash history or it is damaged in the past, the price will drop due to this reason. We can also observe that a vehicle would have a cheaper price if the milage is high since the coefficient from the linear model is negative.

In summary, all these factors except milage have a heavy impact on the price for thousands of dollars. As for the milage of a vehicle, it depends on the numbers of the milage. If a vehicle has a milage less than 10000 km, then the price of that vehicle is going to be high if not considering other conditions. However, the price of a high milage vehicle would probably be cheap in this sense. Another thing worth to mention is that we could use the linear model to make predictions for specific conditions. For example, we have two vehicles with the same brand. Vehicle A is an **automatic limousine** using **gasoline** that was **damaged in the past** and vehicle B is an **automatic minicar** that uses **diesel** **without any damage history**. Also, the milage for vehicle A is 10000 km and the milage for vehicle B is 30000. In this case, we could see that the limousine would be cost 3072.47$ more than the minicar. Even though the limousine has a damage history, it is still more valuable than the minicar. As for the suggestion to used vehicle buyers, even though damaged car is cheaper, it is hazardous to purchase these kinds of vehicles. Instead, buyers should look at compare between different brands, body types, fuel types and gearbox types. Furthermore, buyers could look for cars that have a higher milage.

**Reference**

Data Whale, Tianchi Lab. File name. Alibaba Cloud. <https://tianchi.aliyun.com/competition/entrance/231784/information>