ML PROJECT - USED CAR PRICE PREDICTION

In this Project, I'm going to predict the Price of Used Cars using various features like Present_Price, Selling_Price, Kms_Driven, Fuel_Type, Year etc. The data used in this project was downloaded from Kaggle. To be able to predict used cars market value can help both buyers and sellers. There are lots of individuals who are interested in the used car market at some points in their life because they wanted to sell their car or buy a used car. In this process, it's a big corner to pay too much or sell less then it's market value.

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')
pd.set_option('display.max_columns',None)
plt.style.use('fivethirtyeight')

df=pd.read_csv('/content/drive/MyDrive/ML_Project_Datasets/car data.csv')
df.head()
```

| ₽ | | Car_Name | Year | Selling_Price | Present_Price | Driven_kms | Fuel_Type | Selling_type |
|---|----------|----------|------|---------------|---------------|------------|-----------|--------------|
| | 0 | ritz | 2014 | 3.35 | 5.59 | 27000 | Petrol | Dealer |
| | 1 | sx4 | 2013 | 4.75 | 9.54 | 43000 | Diesel | Dealer |
| | 2 | ciaz | 2017 | 7.25 | 9.85 | 6900 | Petrol | Dealer |
| | 3 | wagon r | 2011 | 2.85 | 4.15 | 5200 | Petrol | Dealer |
| | A | ewift | 201/ | <i>\</i> 60 | 6 27 | 12150 | Nipepl | Dealer • |

Data Preprocessing

df.describe(include='all')

| | Car_Name | Year | Selling_Price | Present_Price | Driven_kms | Fuel_Type |
|--------|----------|-------------|---------------|---------------|---------------|-----------|
| count | 301 | 301.000000 | 301.000000 | 301.000000 | 301.000000 | 301 |
| unique | 98 | NaN | NaN | NaN | NaN | 3 |
| top | city | NaN | NaN | NaN | NaN | Petrol |
| freq | 26 | NaN | NaN | NaN | NaN | 239 |
| mean | NaN | 2013.627907 | 4.661296 | 7.628472 | 36947.205980 | NaN |
| std | NaN | 2.891554 | 5.082812 | 8.642584 | 38886.883882 | NaN |
| min | NaN | 2003.000000 | 0.100000 | 0.320000 | 500.000000 | NaN |
| 25% | NaN | 2012.000000 | 0.900000 | 1.200000 | 15000.000000 | NaN |
| 50% | NaN | 2014.000000 | 3.600000 | 6.400000 | 32000.000000 | NaN |
| 75% | NaN | 2016.000000 | 6.000000 | 9.900000 | 48767.000000 | NaN |
| max | NaN | 2018 000000 | 35 000000 | 92 600000 | 500000 000000 | NaN • |

```
df.isna().sum()
```

Car_Name 0
Year 0
Selling_Price 0
Present_Price 0
Driven_kms 0
Fuel_Type 0
Selling_type 0
Transmission 0
Owner 0
dtype: int64

df.dtypes

Car_Name object
Year int64
Selling_Price float64
Present_Price float64
Driven_kms int64
Fuel_Type object

```
Selling_type object
Transmission object
Owner int64
dtype: object
```

df.ndim

2

df.shape

(301, 9)

df.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 301 entries, 0 to 300
Data columns (total 9 columns):

| Data | columns (total | 9 columns): | |
|-------|-----------------|------------------|--------|
| # | Column | Non-Null Count | Dtype |
| | | | |
| 0 | Car_Name | 301 non-null | object |
| 1 | Year | 301 non-null | int64 |
| 2 | Selling_Price | 301 non-null | float6 |
| 3 | Present_Price | 301 non-null | float6 |
| 4 | Driven_kms | 301 non-null | int64 |
| 5 | Fuel_Type | 301 non-null | object |
| 6 | Selling_type | 301 non-null | object |
| 7 | Transmission | 301 non-null | object |
| 8 | Owner | 301 non-null | int64 |
| dtype | es: float64(2), | int64(3), object | t(4) |
| memor | v usage: 21 3+ | KR | |

memory usage: 21.3+ KB

 ${\tt df.describe(percentiles=[0.25,0.5,0.75,0.9,0.95,0.99])}$

| | Year | Selling_Price | Present_Price | Driven_kms | Owner |
|-------|-------------|---------------|---------------|---------------|------------|
| count | 301.000000 | 301.000000 | 301.000000 | 301.000000 | 301.000000 |
| mean | 2013.627907 | 4.661296 | 7.628472 | 36947.205980 | 0.043189 |
| std | 2.891554 | 5.082812 | 8.642584 | 38886.883882 | 0.247915 |
| min | 2003.000000 | 0.100000 | 0.320000 | 500.000000 | 0.000000 |
| 25% | 2012.000000 | 0.900000 | 1.200000 | 15000.000000 | 0.000000 |
| 50% | 2014.000000 | 3.600000 | 6.400000 | 32000.000000 | 0.000000 |
| 75% | 2016.000000 | 6.000000 | 9.900000 | 48767.000000 | 0.000000 |
| 90% | 2017.000000 | 9.500000 | 14.790000 | 65000.000000 | 0.000000 |
| 95% | 2017.000000 | 14.500000 | 22.780000 | 80000.000000 | 0.000000 |
| 99% | 2017.000000 | 23.000000 | 35.960000 | 142000.000000 | 1.000000 |
| max | 2018.000000 | 35.000000 | 92.600000 | 500000.000000 | 3.000000 |

Feature Engineering

df.head()

| | Car_Name | Selling_Price | Present_Price | Driven_kms | Fuel_Type | Selling_type | Transmission | Owner | Car_age |
|---|----------|---------------|---------------|------------|-----------|--------------|--------------|-------|---------|
| 0 | ritz | 3.35 | 5.59 | 27000 | Petrol | Dealer | Manual | 0 | 9 |
| 1 | sx4 | 4.75 | 9.54 | 43000 | Diesel | Dealer | Manual | 0 | 10 |
| 2 | ciaz | 7.25 | 9.85 | 6900 | Petrol | Dealer | Manual | 0 | 6 |
| 3 | wagon r | 2.85 | 4.15 | 5200 | Petrol | Dealer | Manual | 0 | 12 |
| 4 | swift | 4.60 | 6.87 | 42450 | Diesel | Dealer | Manual | 0 | 9 |

Exploratory Data Analysis

[#] To check if there are any outliers

[#] Here we conclude that we don't have any outliers.

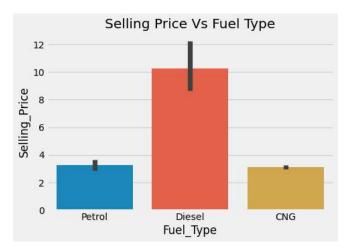
```
plt.figure(figsize=(15,10))
plt.subplot(2,2,1)
sns.barplot(data=df,x='Selling_type',y='Selling_Price')
plt.title('Selling Price Vs Seller Type')
plt.show()
```



```
plt.figure(figsize=(15,10))
plt.subplot(2,2,2)
sns.barplot(data=df,x='Transmission',y='Selling_Price')
plt.title('Selling Price Vs Transmission')
plt.show()
```

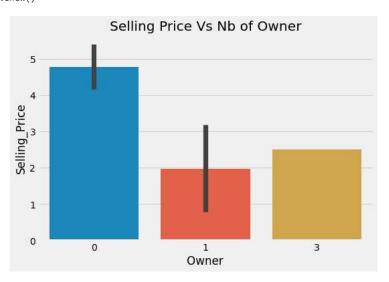


```
plt.figure(figsize=(15,10))
plt.subplot(2,2,3)
sns.barplot(data=df,x='Fuel_Type',y='Selling_Price')
plt.title('Selling Price Vs Fuel Type')
plt.show()
```



```
plt.figure(figsize=(15,10))
plt.subplot(2,2,4)
sns.barplot(data=df,x='Owner',y='Selling_Price')
plt.title('Selling Price Vs Nb of Owner')
```

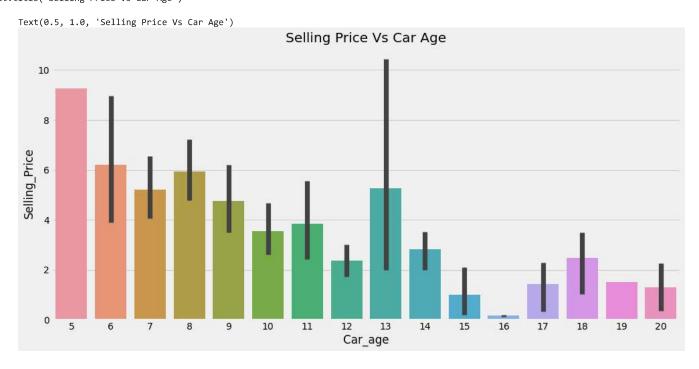
plt.tight_layout()
plt.show()



Observations:

- 1.We have higher Selling Price when sold by Dealers compared to Individuals
- 2. Selling Price would be higher for cars that are Automatic.
- 3. Selling Price of cars with Fuel Type of Diesel is higher than Petrol and CNG
- 4. Selling Price is high with less Owners used Cars

```
plt.figure(figsize=(15,7))
sns.barplot(data=df,x='Car_age',y='Selling_Price')
plt.title('Selling Price Vs Car Age')
```



Observations: Selling Price of cars 5 years old would be high and gradually decreases with car of 20 years old

```
plt.figure(figsize=(15,5))
plt.subplot(1,2,1)
sns.regplot(data=df,x='Driven_kms',y='Selling_Price')
plt.title('Selling Price Vs Driven Distance')

plt.subplot(1,2,2)
sns.regplot(data=df,x='Present_Price',y='Selling_Price')
plt.title('Selling Price Vs Present Price')
plt.show()
```



Observations:

for i in cat col:

df new.head()

1. Lesser the driven distance, higher the Selling Price.

cat_col = ['Fuel_Type','Selling_type','Transmission','Car_Name']

2. Selling Price tends to increase with increase in the Present Price of cars**

df_new.drop(['Fuel_Type','Selling_type','Transmission'],axis=1,inplace=True)

Dealing with Categorical Variables

print(df[i].unique())

```
['Petrol' 'Diesel' 'CNG']
       ['Dealer' 'Individual']
       ['Manual' 'Automatic']
       ['ritz' 'sx4' 'ciaz' 'wagon r' 'swift' 'vitara brezza' 's cross
         'alto 800' 'ertiga' 'dzire' 'alto k10' 'ignis' '800' 'baleno' 'omni'
        'fortuner' 'innova' 'corolla altis' 'etios cross' 'etios g' 'etios liva' 'corolla' 'etios gd' 'camry' 'land cruiser' 'Royal Enfield Thunder 500'
        'UM Renegade Mojave' 'KTM RC200' 'Bajaj Dominar 400'
        'Royal Enfield Classic 350' 'KTM RC390' 'Hyosung GT250R'
'Royal Enfield Thunder 350' 'KTM 390 Duke ' 'Mahindra Mojo XT300'
        'Bajaj Pulsar RS200' 'Royal Enfield Bullet 350'
        'Royal Enfield Classic 500' 'Bajaj Avenger 220' 'Bajaj Avenger 150' 'Honda CB Hornet 160R' 'Yamaha FZ S V 2.0' 'Yamaha FZ 16'
        'TVS Apache RTR 160' 'Bajaj Pulsar 150' 'Honda CBR 150' 'Hero Extreme'
        'Bajaj Avenger 220 dtsi' 'Bajaj Avenger 150 street' 'Yamaha FZ v 2.0'
'Bajaj Pulsar NS 200' 'Bajaj Pulsar 220 F' 'TVS Apache RTR 180'
        'Hero Passion X pro' 'Bajaj Pulsar NS 200' 'Yamaha Fazer '
'Honda Activa 4G' 'TVS Sport ' 'Honda Dream Yuga '
'Bajaj Avenger Street 220' 'Hero Splender iSmart' 'Activa 3g'
        'Hero Passion Pro' 'Honda CB Trigger' 'Yamaha FZ S
        'Bajaj Pulsar 135 LS' 'Activa 4g' 'Honda CB Unicorn'
        'Hero Honda CBZ extreme' 'Honda Karizma' 'Honda Activa 125' 'TVS Jupyter'
        'Hero Honda Passion Pro' 'Hero Splender Plus' 'Honda CB Shine' 'Bajaj Discover 100' 'Suzuki Access 125' 'TVS Wego' 'Honda CB twister'
        'Hero Glamour' 'Hero Super Splendor' 'Bajaj Discover 125' 'Hero Hunk'
        'Hero Ignitor Disc' 'Hero CBZ Xtreme' 'Bajaj ct 100' 'i20' 'grand i10' 'i10' 'eon' 'xcent' 'elantra' 'creta' 'verna' 'city' 'brio' 'amaze'
        'i10' 'eon' 'xcent' 'elantra' 'creta' 'verna'
        'jazz']
# In Car Name column There are three hundred and twelve unique name.
# That's something really hard to implement and a regression that would mean more than 300 dummies, so we simply drop this column
df = df.drop(labels='Car_Name', axis=1)
# Dealing With Categorical Variables, creating dummie
col = ['Fuel_Type','Selling_type','Transmission']
df_new = pd.concat([df]+[pd.get_dummies(df[i],drop_first=True,prefix=i+'_') for i in col],axis=1)
```

| | Selling_Price | Present_Price | Driven_kms | 0wner | Car_age | Fuel_TypeDiesel | Fuel_TypePetrol | Selling_typeIndividual | Transmi |
|----------|---------------|---------------|------------|-------|---------|-----------------|-----------------|------------------------|---------|
| 0 | 3.35 | 5.59 | 27000 | 0 | 9 | 0 | 1 | 0 | |
| 1 | 4.75 | 9.54 | 43000 | 0 | 10 | 1 | 0 | 0 | |
| 2 | 7.25 | 9.85 | 6900 | 0 | 6 | 0 | 1 | 0 | |
| 3 | 2.85 | 4.15 | 5200 | 0 | 12 | 0 | 1 | 0 | |
| A | 1 EU | £ 97 | 12150 | Λ | ۵ | 1 | 0 | ٥ | • |

Checking Multicollinearity Using VIF

```
from statsmodels.stats.outliers_influence import variance_inflation_factor
variables = df_new[['Present_Price','Driven_kms','Owner','Car_age','Fuel_Type__Diesel','Fuel_Type__Petrol','Selling_type__Individual','Tr
vif = pd.DataFrame()
vif["VIF"] = [variance_inflation_factor(variables.values, i) for i in range(variables.shape[1])]
vif["Features"] = variables.columns
vif
```

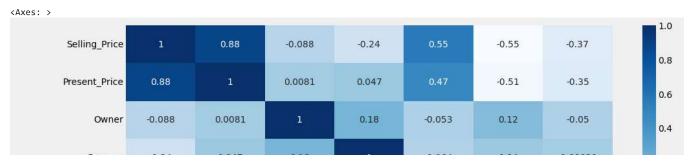
| | VIF | |
|----------|--------------------------|---|
| 0 | 3.211044 | |
| 1 | 2.888998 | |
| 2 | 1.086964 | |
| 3 | 16.194782 | |
| 4 | 5.395420 | |
| 5 | 16.933491 | |
| 6 | 2.231970 | |
| 7 | 8.440614 | |
| | | |
| | e and fuel | |
| df_no_mu | lticolinea | |
| # chekin | g again af | t |
| | s = df_new .DataFrame | - |
| vif["VIF | "] = [vari tures"] = | ĉ |

| | VIF | Features |
|---|----------|------------------------|
| 0 | 2.200856 | Present_Price |
| 1 | 1.883550 | Driven_kms |
| 2 | 1.065891 | Owner |
| 3 | 1.669331 | Fuel_TypeDiesel |
| 4 | 1.748706 | Selling_typeIndividual |
| 5 | 2.465837 | TransmissionManual |

Now we have VIF < 5 and hence there is no Multicollinearity occurrence in our model

Feature Selection: Feature selection simplified models, improves speed and prevent a series of unwanted issues arising from having many features

```
plt.figure(figsize=[15,7])
sns.heatmap(df_no_multicolinearity.corr(), annot=True,cmap='Blues')
```



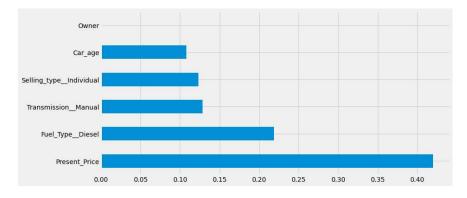
Feature Importance: Feature importance gives you a score for each feature of your data, the higher the score more important or relevant is the feature towards our Target variable.

```
X = df_no_multicolinearity.drop('Selling_Price',axis=1)
y = df_no_multicolinearity['Selling_Price']

# Important feature using ExtraTreesRegressor
from sklearn.ensemble import ExtraTreesRegressor
etree = ExtraTreesRegressor()
etree.fit(X,y)

* ExtraTreesRegressor
ExtraTreesRegressor()
```

plot graph of feature importances for better visualization
plt.figure(figsize=[12,6])
feat_importances = pd.Series(etree.feature_importances_, index=X.columns)
feat_importances.nlargest(6).plot(kind='barh')
plt.show()



print(feat_importances.sort_values(ascending=False))

 Present_Price
 0.419832

 Fuel_Type_Diesel
 0.218754

 Transmission_Manual
 0.128481

 Selling_type_Individual
 0.123524

 Car_age
 0.108105

 Owner
 0.001304

 dtype: float64

Selecting useful features.

final_df = df_no_multicolinearity[['Selling_Price', 'Present_Price', 'Car_age', 'Fuel_Type__Diesel', 'Selling_type__Individual', 'Transmissic
final df.head()

| | Selling_Price | Present_Price | Car_age | Fuel_TypeDiesel | Selling_typeIndividual | TransmissionManual |
|---|---------------|---------------|---------|-----------------|------------------------|--------------------|
| 0 | 3.35 | 5.59 | 9 | 0 | 0 | 1 |
| 1 | 4.75 | 9.54 | 10 | 1 | 0 | 1 |
| 2 | 7.25 | 9.85 | 6 | 0 | 0 | 1 |
| 3 | 2.85 | 4.15 | 12 | 0 | 0 | 1 |
| 4 | 4.60 | 6.87 | 9 | 1 | 0 | 1 |

Model Development

```
X = final_df.drop('Selling_Price', axis=1)
y = final_df['Selling_Price']
Feature Scaling
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler()
scaler.fit_transform(X[['Present_Price','Car_age']])
input_scaled = scaler.transform(X[['Present_Price','Car_age']])
scaled data = pd.DataFrame(input scaled, columns=['Present Price','Car age'])
X_scaled =scaled_data.join(X.drop(['Present_Price','Car_age'],axis=1))
#Training and Testing Data
from sklearn.model_selection import train_test_split
X\_train, X\_test, y\_train, y\_test=train\_test\_split(X, y, test\_size=0.2, random\_state=42)
X_train.shape,y_train.shape,X_test.shape,y_test.shape
     ((240, 5), (240,), (61, 5), (61,))
from sklearn.linear_model import LinearRegression
from sklearn.tree import DecisionTreeRegressor
from \ sklearn. ensemble \ import \ Random ForestRegressor, Gradient Boosting Regressor
from xgboost import XGBRegressor
from sklearn.metrics import r2_score,mean_absolute_error,mean_squared_error
res = pd.DataFrame()
lr = LinearRegression()
tree = DecisionTreeRegressor()
rf = RandomForestRegressor()
gb = GradientBoostingRegressor()
xgb = XGBRegressor()
Models = [lr,tree,rf,gb,xgb]
for model in Models:
    print('Model is: {}'.format(model))
    m = model.fit(X_train,y_train)
    print('Training score : {}'.format(m.score(X_train,y_train)))
    prediction = m.predict(X test)
    print('Predictions are : {}'.format(prediction))
    r2score = r2_score(y_test,prediction)
    print('R2 score is : {}'.format(r2score))
    mae = mean_absolute_error(y_test,prediction)
    mse = mean_squared_error(y_test,prediction)
    rmse = np.sqrt(mean_squared_error(y_test,prediction))
    print('MAE : {}'.format(mae))
    print('MSE : {}'.format(mse))
    print('RMSE : {}'.format(rmse))
    model_dict = {'Model Name' : model, 'R2 score':r2score,'MAE' : mae,'MSE' : mse,'RMSE' : rmse}
    res = res.append(model_dict,ignore_index=True)
    print(res)
    print('='*80)
     Model is: LinearRegression()
     Training score : 0.8843830218270095
     Predictions are : [ 2.85090216  8.12803353  6.41650528 -0.72103319  9.01800124  7.45747829
       1.32336542 0.65668224 1.34213912 7.4813302 9.09094746 0.49298142
       8.12866516 3.24051879 6.83169728 3.16976577 0.19714116 10.69155693

      1.75733112
      2.3029391
      0.17755181
      8.07727328
      6.41650528
      2.38200739

      0.70357043
      3.5644606
      5.30530948
      2.68891188
      2.15374942
      1.7513451

       0.20184841 9.20766793 -0.97424783 2.05714484 8.66976944 4.48435841
       7.34281425 7.35723323 2.96516278 7.7425873
                                                         3.60354714 4.10888459
       3.04615146 5.30397652 6.58815672 2.15374942 20.47942208 16.80427774
       7.66208128 9.62400888 4.34541732 9.01503698 1.41857615 7.45010211
       0.11361337]
     R2 score is : 0.8520804961634096
     MAE: 1.207955719295842
     MSE: 3.407412232827175
```

RMSE

MAE

RMSE : 1.845917721033951

Model Name R2 score

```
0 LinearRegression() 0.85208 1.207956 3.407412 1.845918
Model is: DecisionTreeRegressor()
Training score : 0.9987176853605171
                              10.21666667 5.2
                                                                   7.25
Predictions are : [ 0.45
                                                       0.2
                                                                               4.9
                         0.475 7.2
                                                 7.25
                                           7.25
0.9
5.2
1.45
7.75
 1.13
            0.4
                                                             1.
                         5.95
             0.465
                                     2.35
  7.5
                                                            18.
 0.475
             1.65
                         0.38
                                     8.75
                                                             2.35
                         5.25
  0.5
             2.9
                                     3.1
                                                             1.15
  0.38
            11.25
                         0.52
                                     2.25
                                                 7.75
                                                             3.9
            3.6
                                     4.35
                                             3.49
8.73
23.
  7.25
                         2.55
                                                             3.35
            0.6 4.9
2.9 4.8
  5.4
                                     0.65
                                     1.45
  3.1
                                                            20.75
  4.9
            10.21666667 4.825
                                     8.99
                                               2.25
                                                             6.2
 0.25
           1
R2 score is : 0.9442622702784067
MAE : 0.662622950819672
MSE : 1.2839511839708557
RMSE : 1.1331156975220384
                                                             RMSE
               Model Name R2 score
                                          MAE
                                                    MSE
        LinearRegression() 0.852080 1.207956 3.407412
                                                         1.845918
1 DecisionTreeRegressor() 0.944262 0.662623 1.283951 1.133116
Model is: RandomForestRegressor()
Training score : 0.9829456283572534
Predictions are : [ 0.45840762 10.24463571 5.137
                                                     0.24475
                                                                   7.60988571 6.19
                                           7.6511

    1.1225781
    0.49478524
    0.46674095
    6.71

    7.88133135
    0.46018357
    5.6475
    2.807

                                                            1.05334
                                                 1.1083
                                                            14.21191667
  0.47304762 1.5575
                        0.27161667 8.16579167 5.137
                                                           2.543
                                     3.0945
  0.53447738 3.59120357 5.346
                                                 1.32
                                                             1.1617

      0.4102
      10.75391667
      0.466375
      2.32

      7.13246905
      4.67496667
      2.434625
      5.7876

                                                 7.8285
                                                             4.08772619
                                     5.78763333 4.09816667 3.542
  4.54471667 0.58911667 6.10583333 0.73113333 8.50034623 6.79533333
                                             21.98080667 19.98763333
21.3225
  2.92933333 3.654
                        4.9875
                                     1.32
            10.78471905 4.8274875 9.2302
  6.482
 0.2464
R2 score is : 0.9605520732118513
MAE : 0.5993053955243303
MSE : 0.908706051678621
RMSE: 0.9532607469515468
```

Model Comparison

```
models = ['LinearRegression', 'DecisionTreeRegressor', 'RandomForestRegressor', 'GradientBoostingRegressor', 'XGBRegressor']
result = pd.DataFrame({ 'Models':models})
result['R2 score'] = res['R2 score']
result['MAE'] = res['MAE']
result['MSE'] = res['MSE']
result['RMSE'] = res['RMSE']
result = result.sort_values(by='R2 score',ascending=False)
result
```

| | Models | R2 score | MAE | MSE | RMSE |
|---|---------------------------|----------|----------|----------|----------|
| 3 | GradientBoostingRegressor | 0.971354 | 0.498727 | 0.659878 | 0.812328 |
| 2 | RandomForestRegressor | 0.960552 | 0.599305 | 0.908706 | 0.953261 |
| 1 | DecisionTreeRegressor | 0.944262 | 0.662623 | 1.283951 | 1.133116 |
| 4 | XGBRegressor | 0.935905 | 0.653831 | 1.476469 | 1.215100 |
| 0 | LinearRegression | 0.852080 | 1.207956 | 3.407412 | 1.845918 |
| | | | | | |

```
#Trainning data with GradientBoostingRegressor
gb.fit(X_train,y_train)
y_pred = gb.predict(X_test)

out = pd.DataFrame({'Price_actual':y_test,'Price_pred':y_pred})
df_copy = df.copy()
res = df_copy.merge(out,left_index=True,right_index=True)
res.head(10)
```

| | Selling_Price | Present_Price | Driven_kms | Fuel_Type | Selling_type | Transmission | Owner | Car_age | Price_actual | Price_pre |
|----|---------------|---------------|------------|-----------|--------------|--------------|-------|---------|--------------|-----------|
| 5 | 9.25 | 9.83 | 2071 | Diesel | Dealer | Manual | 0 | 5 | 9.25 | 8.22310 |
| 7 | 6.50 | 8.61 | 33429 | Diesel | Dealer | Manual | 0 | 8 | 6.50 | 6.73746 |
| 9 | 7.45 | 8.92 | 42367 | Diesel | Dealer | Manual | 0 | 8 | 7.45 | 6.55006 |
| 10 | 7.75 | 10.79 | 43000 | Diesel | Dealer | Manual | 0 | 7 | 7.75 | 8.34954 |

Conclusions:

- 1. Present price of a car plays an important role in predicting Selling Price, One increases the other gradually increases.
- 2. Car age is effecting negatively. As older the car lesser the Selling Price.
- 3. Selling Price of cars with Fuel type Diesel is higher.
- 4. Car of Manual type is of less priced whereas of Automatic type is high.
- $5.\ \mbox{Cars}$ sold by Individual tend to get less Selling Price when sold by Dealers.

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