In [8]: In [11]:	<pre>import numpy as np import pandas as pd train = pd.read_csv("C:\\Users\\HP\\Desktop\\original projectsimpli\\machine learning\\project mercedese benz\\train.csv") train.head() v</pre>
	1 6 88.53 k t av e d y l o 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	1 az v n f d t a w 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
	ID 0 y 0 X0 0 X1 0 X2 0 X380 0 X382 0 X383 0 X384 0 X384 0 X385 0 Length: 378, dtype: int64 test.isnull().sum()
	ID 0 X0 0 X1 0 X2 0 X3 0 X3 0 X380 0 X382 0 X382 0 X383 0 X383 0 X383 0 X384 0 X385 0 Length: 377, dtype: int64 train.describe()
	No count
In [18]:	max 8417.00000 265.32000 1.00000 0.0 1.000000 1.000000 1.00000 1.000000 1.00000 1.00000 1.00000 1.0000
In [31]:	min 1.000000 0.000000 0.000000 0.000000 0.000000
	The section of the se
	df_train.var().sort_values().head(5) X330
In [34]: Out[34]:	label = LabelEncoder import matplotlib.pyplot as plt %matplotlib inline train_without_zero_var = variance.fit_transform(df_train.iloc[:,9:]) train_without_zero_var array([[0, 1, 0,, 0, 0, 0], [0, 0, 0,, 0, 0, 0], [0, 0, 0,, 0, 0, 0], [0, 0, 1,, 0, 0, 0], [0, 0, 1,, 0, 0, 0], [0, 0, 1,, 0, 0, 0], [0, 0, 1,, 0, 0, 0], [0, 0,, 0, 0, 0]], dtype=int64)
	<pre>labeled = df_train.iloc[:,0:8] labeled.head()</pre>
In [36]: Out[36]:	labeled.nunique() X0 47 X1 27 X2 44 X3 7 X4 4 X5 29 X6 12 X8 25 dtype: int64
	labeled_data = labeled.apply(label().fit_transform) labeled_data.head() x0
	labeled_data.var() X0
	v 1 2 3 4 5 6 7 8 9 349 349 349 349 350 351 352 353 354 0 0 1 2 3 4 5 6 7 8 9 349 349 350 354 10 0 1 0 0 1 0 0 1 0 <
	Train_data = pd concat (labeled at a, train_zero_var], axis=1 x0
In [44]:	<pre>train_data.isnull().any()</pre>
In [45]: Out[45]:	Length: 363, dtype: bool test = test.drop(['ID'], axis=1) x0
In [46]:	4 w s as c d y i m 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
In [47]: Out[47]:	X383 2 X384 2 X385 2 Length: 376, dtype: int64 test.isnull().any() X0 False X1 False X2 False X3 False X3 False X4 False X5 False X6 False X7 False X8 False X8 False X9 False X9 False
In [48]: Out[48]:	X383 False X384 False X385 False Length: 376, dtype: bool test.var().sort_values().head() X295 0.0 X369 0.0 X296 0.0 X297 0.0 X257 0.0 X258 0.0 dtype: float64
In [49]: Out[49]: In [50]:	test_without_zero_var = variance.fit_transform(test.iloc[:,9:]) array([[0, 0, 0,, 0, 0, 0],
	1 1 2 3 4 5 6 7 8 9 352 353 354 355 356 357 358 359 360 361 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	0 az v n f d t a w 1 t b ai a d b g y 2 az v as f d a j j 3 az l n f d z l n 4 w s as c d y i m
	labeled_data.head() x0
	*** The stand of the standard of the sta
	test_data1.isnull().any() X0 False X1 False X2 False X3 False X4 False X4 False 357 False 358 False 359 False 360 False 361 False Length: 370, dtype: bool
In [60]: In [61]: In [62]:	<pre>from sklearn.model_selection import train_test_split x_train,x_test,y_train,y_test = train_test_split(train_data,train_target,random_state=42,test_size=0.3) x_train.shape,x_test.shape,y_train.shape,y_test.shape ((2946, 363), (1263, 363), (2946,), (1263,)) from sklearn.decomposition import PCA</pre>
In [76]: In [2]:	<pre>pca = PCA(n_components=2) x_train = pca.fit_transform(x_train) x_test = pca.transform(x_test) from sklearn import svm from sklearn.metrics import r2_score, mean_squared_error from xgboost import XGBRegressor xgbr = XGBRegressor(random_state=42)</pre>
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