

PROJECT DEVELOPMENT PHASE (DELIVERY OF SPRINT-1)

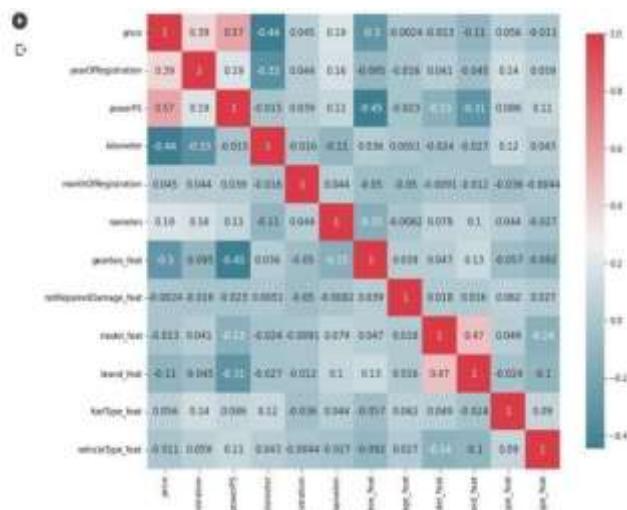
Date	19th November 2022
Team ID	PNT2022TMID11626
Project Name	Car Resale Value prediction
Maximum marks	4 Marks

Import Library and load the data set:

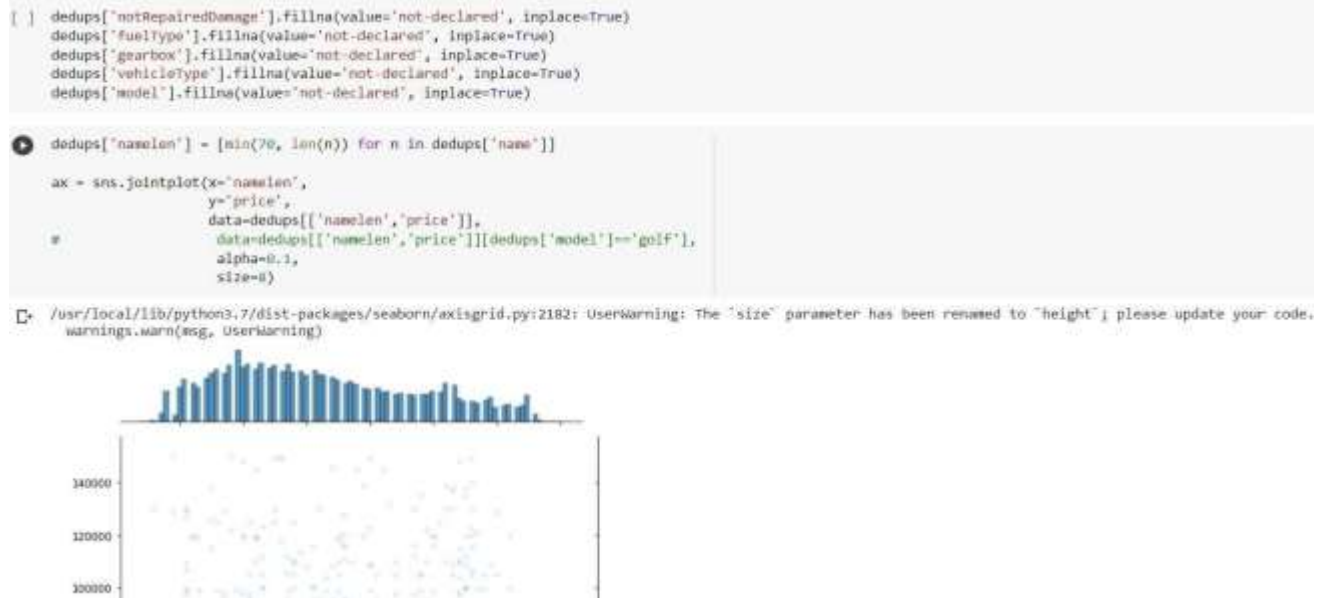
```
df = pd.read_csv('content/drive/MyDrive/Barticus/autos.csv', sep=',', header=0, encoding='utf8')
mf = pd.read_csv('autos.csv.gz', sep=',', header=0, compression='gzip', encoding='utf8')
df.sample(10)
```

	dataCrawled	name	seller	offerType	price	stext	vehicleType	yearOfRegistration	gearbox	powerPS	model	kilometer	monthOfRegistration
35533	2016-04-01 16:52:24	Peugeot_208_5Tuner_Klima_El_Fenster_2_Handl_8L...	privat	Angebot	998	control	Kleinwagen	1999	manuell	75	2_reihe	150000	
104233	2016-03-28 20:58:28	Citroën_C4_Picasso_2.0_HDI_FAP_EGSE_Exclusive	privat	Angebot	9530	control	bus	2008	automatik	136	04	125000	
81172	2016-04-01 22:53:21	Volkswagen_Passat_Variant_1.8_TDI_DPF_Comfortline	privat	Angebot	6966	test	kombi	2006	manuell	108	passat	150000	
362697	2016-03-09 14:37:44	BMW_E30_Limo	privat	Angebot	2900	test	limo	2017	Nach	0	andere	150000	
147593	2016-03-21 06:54:07	Ford_Mondeo_an_Basler	privat	Angebot	250	control	kombi	1999	manuell	0	mondeo	150000	
254016	2016-03-26 12:45:47	Golf_VIII_2.0TDI_DSG_Cup	privat	Angebot	22500	control	limousine	2014	automatik	150	golf	45000	
264392	2016-03-27 16:58:15	Peugeot_307_Premium_4Tuning_Diesel	privat	Angebot	2790	test	Nach	2017	manuell	109	3_reihe	150000	

Understanding and analyzing the dataset by Correlation:



Clearing the null values:



Preprocessing the Categorical values:

```
• labels = ['name', 'gearbox', 'notRepairedDamage', 'model', 'brand', 'fuelType', 'vehicleType']
les = {}

for l in Loading..
    les[l] = preprocessing.LabelEncoder()
    les[l].fit(dedups[l])
    tr = les[l].transform(dedups[l])
    dedups.loc[:, l + '_feat'] = pd.Series(tr, index=dedups.index)

labeled = dedups[ ['price'
                  , 'yearOfRegistration'
                  , 'powerPS'
                  , 'kilometer'
                  , 'monthOfRegistration'
                  , 'namelen'
                  + [x + '_feat' for x in labels]]
```