# PROJECT DEVELOPMENT PHASE

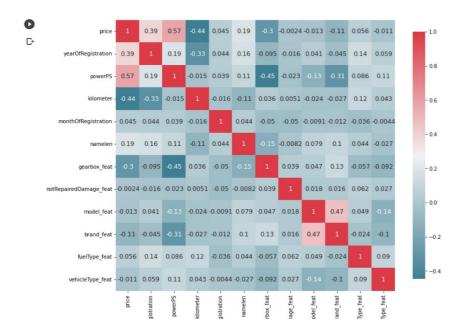
## **DELIVERY OF SPRINT-1**

DATE	29 OCTOBER 2022
TEAM ID	PNT2022TMID15486
PROJECT NAME	Car Resale Value Prediction
MAXIMUM MARK	4 Marks

## • Import library and load dataset in python

<pre>df = pd.read_csv('/content/drive/MyDrive/Imarticus/autos.csv', sep=',', header=0, encoding='cp1252') #df = pd.read_csv('autos.csv.gz', sep=',', header=0, compression='gzip',encoding='cp1252') df.sample(10)</pre>														
}		dateCrawled	name	seller	offerType	price	abtest	vehicleType	yearOfRegistration	gearbox	powerPS	model	kilometer	monthOfReg
	35533	2016-04-01 16:52:24	Peugeot_206_5Tuerer_Klima_EI_Fenster_2_Hand_8f	privat	Angebot	999	control	kleinwagen	1999	manuell	75	2_reihe	150000	
	104233	2016-03-26 20:58:26	Citroën_C4_Picasso_2.0_HDi_FAP_EGS6_Exclusive	privat	Angebot	9500	control	bus	2008	automatik	136	c4	125000	
	81172	2016-04-01 22:53:21	Volkswagen_Passat_Variant_1.9_TDI_DPF_Comfortline	privat	Angebot	6666	test	kombi	2009	manuell	105	passat	150000	
	362697	2016-03-09 14:37:44	BMW_E36_Limo	privat	Angebot	2900	test	NaN	2017	NaN	0	andere	150000	
	147593	2016-03-21 08:54:07	Ford_Mondeo_an_Bastler	privat	Angebot	250	control	kombi	1999	manuell	0	mondeo	150000	
	254916	2016-03-26 12:45:47	Golf_VII_2.0TDI_DSG_Cup	privat	Angebot	22500	control	limousine	2014	automatik	150	golf	40000	
	264392	2016-03-27 16:59:13	Peugeot_307_Premium_4Tuerig_Diesel	privat	Angebot	2790	test	NaN	2017	manuell	109	3_reihe	150000	
	0.40500	2016-03-19	V						0000		440		450000	

• Understanding and Analyzing the dataset by Correlation.



#### • Effective model building

#### • Dumping to Pickle file

```
print(gs.best_score_)
print(gs.best_params_)

print(gs.best_params_)

o.7707290246596359
{'loss': 'squared_error', 'max_depth': None, 'max_iter': 500, 'max_leaf_nodes': 31, 'min_samples_leaf': 20}

[48] import pickle
pickle.dump(gs,open('histmodel.pkl','wb'))
```