train['Owner_Type train['Owner_Type train['Owner_Type train = train.dre train #replace를 하려면, #데이터 자체에 인덱	Name은 회사명만 남기고 뒤의 글자 De 전처리 & CSV 교 e'] = train['Owner_Type'].rep] e'] = train['Owner_Type'].rep] e'] = train['Owner_Type'].rep] e'] = train['Owner_Type'].rep] op('Unnamed: 0', axis=1) replace를 쓰고나서 다시 옮겨줘이 스가 있어서 해당 열을 지워야했다.	나일에서 인데 Lace('First', 1) Lace('Second', 2) Lace('Third', 3) Lace('Fourth & Abov	ve', 4)	r_Type Milea	nge Engine	Power Seats	New_Price Price			
1 Hyundai Creta 1.6 2 3 4 Audi A4 New 2 6014 6015 Hyundai 6016 Mahin	/agon R LXI CNG Mumbai 2010	72000 41000 E 46000 E 87000 E 40670 E 27365 E 100000 E	CNG Manual Diesel Manual Diesel Manual Diesel Manual Diesel Automatic Diesel Manual	1 26.6 km/ 1 19.67 km 1 18.2 km 1 20.77 km 2 15.2 km 1 28.4 km	/kg 998 CC 58 mpl 1582 CC 12 mpl 1199 CC 8 mpl 1248 CC 88 mpl 1968 CC 14 mpl 1248 CC mpl 1248 CC mpl 1120 CC mpl 2498 CC 1	5.16 bhp 5.0 6.2 bhp 5.0 8.7 bhp 5.0 7.0 0.8 bhp 5.0 	NaN1.75NaN12.508.61 Lakh4.50NaN6.00			
6018 Che 6019 rows × 13 column Name 전처 train['Name'].str	vrolet Beat Diesel Hyderabad 2011 ns	47000 E 가 붙어서 단어 단위로	Diesel Manual	1 25.44 km		77.6 bhp 5.0	NaN 2.50			
#train데이터에는 M Name Locat 4446 Mahindra Cher 4904 Toyota Mum	Reage'].isnull() == True] ileage에 결측값이 있다. ion Year Kilometers_Driven Fuel_T inai 2016 50000 Elea ibai 2011 44000 Elea L_Type'] == "Electric"]	ctric Automatic		C 41 bhp 5.0	s New_Price P 0 13.58 Lakh 13 0 NaN 12	3.00				
Name Locate 4446 Mahindra Cher 4904 Toyota Mum Madindra E verito I 따라서 연비가 리터당이	ion Year Kilometers_Driven Fuel_T	ctric Automatic ctric Automatic 에 연비가 결측치로 나타 당은 아주 미미할 것으로	1 NaN 72 C 1 NaN 1798 C 타난 것이다. ! 생각했다. 따라서 마힌드리	C 41 bhp 5.0 C 73 bhp 5.0		3.00 2.75				
train.loc[4904,'' #직접 찾은 도요타 3 train['Mileage']	Mileage'] = 29.3 프리우스의 연비를 입력해준다. dropna() NaN값이 있는 데이터는 삭제한다.									
18.9 kmp 6018 25.44 kmp Name: Mileage, Le train[train['Mile# 0 4 2 5 4 5 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I_Type Transmission Diesel Automatic Diesel Automatic	Owner_Type Mileage En 2 0.0 kmpl 217 1 0.0 kmpl 195	9 CC 115 bhp 0 CC 194 bhp	5.0 49.14 La	aN 17.50 kh 35.67				
	dabad 2007 60006 galore 2015 70436 dumbai 2001 227000 dabad 2019 4000 hennai 2002 75000 dumbai 2008 65000	Petrol Manual Petrol Manual Diesel Manual Diesel Manual Diesel Automatic Diesel Manual Petrol Manual Petrol Automatic	1 0.0 kmpl 108 1 0.0 kmpl 149 4 0.0 kmpl 244 1 0.0 kmpl 195 1 0.0 kmpl 211 2 0.0 kmpl 108 1 0.0 kmpl 359	NaN NaN 3 CC 99 bhp 6 CC null bhp 0 CC 194 bhp 2 CC null bhp 6 CC 62 bhp	NaN	aN 1.30 aN 2.95 aN 3.60 aN 2.20 akh 35.00 aN 1.70 aN 1.39 aN 4.75				
이러한 이성	네서 보듯이, 연비기 상치들은 우선 연비 네한 전처리를 해与	· 의 중앙값의	으로 채운 뒤,		모델의	성능이	떨어지면			
import numpy as itrain['Mileage'] train['Mileage'] train['Mileage'] #연비 항목이 '0.0k #연비의 중앙값을 대	np = train["Mileage"].str.extrac = train['Mileage'].astype(flo = train['Mileage'].replace(0, mpl' 이었던 값들을, 우선 float형 입했다. (이 과정에서 정확도가 떨어	ct('([0-9]+\.[0-9]+ pat) train['Mileage']. 으로 바꿔주고,	+)')							
#아래 출력에서 보듯 #또한 이 데이터는 발 #이러한 이상치들은 #그때 더 세세한 전기 Name Loc 194 Honda Ahmed 208 Maruti Ko 733 Maruti Che 749 Land Mu	ennai 2006 97800 Embai 2008 55001 E	나중에 모델의 성능이 Petrol Manual Petrol Manual Petrol Manual Diesel Automatic	Dwner_Type Mileage Engir 1 18.15 Na 1 16.10 Na 3 16.10 Na 2 18.15 Na	ne Power Seat N NaN Na N NaN Na N NaN Na N NaN Na	N NaN N NaN N NaN N NaN 2	2.95 2.11 1.75 6.50				
1327 Maruti Hyder 1385 Honda 1460 Land Coimb 2074 Maruti 2096 Hyundai Coimb 2264 Toyota 2325 Maruti 2335 Maruti Mu	abad 2015 50295 F Pune 2004 115000 F atore 2008 69078 F Pune 2011 24255 F atore 2004 52146 F Pune 2012 24500 F Pune 2015 67000 F Embai 2007 55000 F	Petrol Manual	1 12.80 Na 1 16.10 Na 2 18.15 Na 1 18.15 Na 1 16.10 Na 1 18.15 Na 1 16.10 Na 1 18.15 Na 2 18.30 Na 1 16.10 Na 1 16.10 Na 1 16.10 Na 1 18.48 Na	N NaN Na	N NaN	5.80 1.50 0.88 3.15 1.93 2.95 4.70 1.75				
2623 BMW 2668 Maruti Ko 2737 Maruti J 2780 Hyundai 2842 Hyundai Bang 3272 BMW Mu 3404 Maruti J 3520 BMW	Pune 2012 95000 E olkata 2014 32986 F aipur 2001 200000 F Pune 2009 100000 F alore 2012 43000 F mbai 2008 81000 E aipur 2006 125000 F Delhi 2012 90000 E	Petrol Manual Diesel Automatic Petrol Manual Petrol Manual Petrol Manual Petrol Manual Diesel Automatic Petrol Manual Diesel Automatic Diesel Automatic	2 18.15 Na 2 18.48 Na 1 16.10 Na 1 12.00 Na 1 18.15 Na 1 18.15 Na 2 18.48 Na 4 16.10 Na 1 18.48 Na	N NaN Na	N NAN 1 N NAN N NAN N NAN N NAN N NAN 1 N NAN N NAN 1	8.00 4.24 0.70 1.60 3.25 0.50 2.35 4.50				
3810 Honda Ko 4011 Fiat 4152 Land Mu 4229 Hyundai Bang 4577 BMW 4604 Honda 4697 Fiat 4712 Hyundai	Pune 2011 45271 E mbai 2003 75000 E alore 2005 79000 E Delhi 2012 72000 E Pune 2011 98000 E Kochi 2017 17941 E Pune 2003 80000 E	Petrol Manual Petrol Automatic Diesel Manual Diesel Automatic Petrol Manual Diesel Automatic Petrol Manual Petrol Manual Petrol Manual Petrol Manual Petrol Manual	1 18.15 Na 1 14.00 Na 1 20.30 Na 2 18.15 Na 2 17.00 Na 3 18.48 Na 1 16.70 Na 1 15.70 Na 2 17.00 Na 1 14.60 Na	N NaN Na	N NAN 1 N NAN NAN NAN	1.99 2.60 6.11 1.65 3.85 3.15 3.93 0.90				
<pre>5185 Maruti 5270 Honda Bang train['Power'] = train['Power'] = train['Engine'] = train['Engine'] =</pre>	Delhi 2012 52000 I	('([0-9]+)') :)	1 16.10 Na 1 16.10 Na 2 18.15 Na	N NaN Na	N NaN	3.65				
#문자로 된 데이터들 #제대로 다루기에는, # .drop()함수를 시 Year, Kilon train['Kilometers	n.drop(['Name', 'Location', 'F 도 분명히 중고가 책정에 이유가 되겠 도메인 지식이 필요해서 문자로 된 '용한다. axis = 1은 열을 지운다는 Neters_Driven S_Driven'] = train['Kilometers	생지만, 데이터들의 열은 모두 뜻이다.	지운다.	ax1s = 1)						
#SimpleImputer 2/ train_num = pd.Da import matplotlin plt.figure(figsiz for i in range(0) plt.subplot(2) plt.scatter(1)	train_num) transform(train_num) transform(train_num) transform을 이용해서, 결측치를 치 ataFrame(X, columns = train_nu c.pyplot as plt ze=(20,10)) 6): 2,3,i+1) train_num.iloc[:,i], train_num	um.columns, index =	= train_num.index)							
plt.title(tra #train 데이터의 숙 160 - 140 - 120 - 100 - 80 - 60 -	ain_num.columns[i]) 자형데이터들을 matplotlib으로 시	160 - 140 - 120 - 100 - 80 - 60 -	Kilometers_Driven	•	160 - 140 - 120 - 100 - 80 - 60 -	Ow	ner_Type			
160 - 140 - 120 -	2005 2010 2015 202 Mileage	160 - 140 - 120 - 100 -	2 3 4 Engine	5 6 1e6	160 - 140 - 120 - 100 -	1.5 2.0	2.5 3.0 3 Power	4.0		
train_num[train_i #인덱스 2328의 'Ki #데이터가 하나 밖에	num['Kilometers_Driven']>600000 lometers_Driven' 값이 잘못 입력 없으므로, 데이터를 제거해도 될 것 328, inplace= True)	된 것 같다,	2000 3000 4000	5000 6000	80 - 60 - 40 - 20 - 0 -	100 200	300 400	500		
Year Kilometers_Dr import matplotlif plt.figure(figsiz for i in range(0, plt.subplot(2, plt.scatter(1, plt.title(tra	ze=(20,10)) 6):	Power Seats Price								
#CF4211 516051 X #CFA1 216051 AICH 160 - 140 - 120 - 100 - 80 - 60 - 40 -		160 - 140 - 120 - 100 - 80 - 60 - 40 -	Kilometers_Driven		160 - 140 - 120 - 100 - 80 - 60 -	Ow	ner_Type			
20 - 0 - 2000 2 160 - 140 - 120 - 100 - 80 -	2005 2010 2015 202 Mileage	20 - 0 100000 2 160 - 140 - 120 - 100 - 80 -	Engine	0000 7000000 8000000	20 - 0 - 10 - 140 - 120 - 100 - 80 -	1.5 2.0	2.5 3.0 3 Power	2.5 4.0		
train_cat = train #train_num = train	n.drop(['Year', 'Kilometers_Drin.drop(['Name', 'Location', '328, inplace= True)			5000 6000	60 - 40 - 20 - 0 -	100 200	300 40	500		
	처리하기 위해, train_cat을 선언한 ain num에서와 같은 전처리를 해주기				eats','New_Pri	ice','Price']	axis = 1)			
#train_cat에도 tr #train에서 이미 웬 train_cat Name Loc Maruti M 1 Hyundai 2 Honda Ch	ain_num에서와 같은 전처리를 해주기 만한 전처리를 모두 마쳤기 때문에 2 Cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual nennai Petrol Manual	기 위해 2328을 삭제한	FC+.		eats','New_Pri	ice','Price']	axis = 1)			
#train_cat에도 tr #train에서 이미 웬 train_cat Name Loc Name	ain_num에서와 같은 전처리를 해주? 만한 전처리를 모두 마쳤기 때문에 2 Cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual nennai Petrol Manual batore Diesel Automatic Delhi Diesel Manual Jaipur Diesel Manual Jaipur Diesel Manual Jolkata Petrol Manual olkata Petrol Manual	기 위해 2328을 삭제한 328만 해주면 된다. 함해준다. 데이터프레임 객체로 저			eats','New_Pri	ice','Price']	axis = 1)			
#train_cat에도 tr #train에서 이미 웬 train_cat Name Loc Name	ain_num에서와 같은 전처리를 해주가만한 전처리를 모두 마쳤기 때문에 2 Cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual pennai Petrol Manual pennai Diesel Manual Diesel Manual Diesel Manual Daipur Diesel Manual Diapur Diesel Manual CNG Manual Diesel Manual CNG Manual CNG Manual CNG Manual CNG Manual Diesel Manual CNG Manual Diesel Manual CNG Manual Diesel Automatic	기 위해 2328을 삭제한 328만 해주면 된다. 함해준다. 데이터프레임 객체로 저			eats','New_Pri	ice', 'Price']	axis = 1)			
##rain_cat에도 tr ##rainon/서 이미 원 train_cat Name Loo Maruti M Hyundai Honda Ch Maruti Coim Maruti Marut	atin_num에서와 같은 전처리를 해주건 만한 전처리를 모두 마쳤기 때문에 2 cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual Diesel Manual	한해준다. 데이터프레임 객체로 저미변수화 한다.			eats','New_Pri	ice', 'Price']	axis = 1)			
#train_cat 에도 tr #trainol/서 이미 원 train_cat Name Loc 0 Maruti M 1 Hyundai 2 Honda Ct 3 Maruti Ct 4 Audi Coim 6014 Maruti 6015 Hyundai 6016 Mahindra 6017 Maruti K 6018 Chevrolet Hyde 6018 rows × 4 columns train_cat = train #전처리 전에, 범주함 #그 후, 범주형 데이 #get_dummies 메서 train_cat Name Loc 0 Maruti M 1 Hyundai 2 Honda Ct 3 Maruti Ct 4 Audi Coim 6014 Maruti 6015 Hyundai 6016 Mahindra 6017 Maruti K 6018 Chevrolet Hyde 4 Audi Coim 6014 Maruti 6015 Hyundai 6016 Mahindra 6017 Maruti K 6018 Chevrolet Hyde 6018 rows × 4 columns name = pd.pataFra train_cat ###################################	ation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual pennai CNG Manual pennai CNG Manual pennai Petrol Manual pennai Diesel Manual pennai Diese	한 위해 2328을 삭제한 1328만 해주면 된다. 함해준다. 데이터프레임 객체로 저 마변수화 한다.	/장한 뒤,	axis = 1)						
#train_cat에도 tr #train에서 이미 원 train_cat Name Loc 0 Maruti M 1 Hyundai 2 Honda Ct 3 Maruti Ct 4 Audi Coim 6014 Maruti 6015 Hyundai 6016 Mahindra 6017 Maruti K 6018 Chevrolet Hyde 6018 rows × 4 columns train_cat = train #전처리 전에, 범주함 #그 후, 범주형 데이 #get_dummies 메서 train_cat Name Loc 0 Maruti M 1 Hyundai 2 Honda Ct 3 Maruti Ct 4 Audi Coim 6014 Maruti 6015 Hyundai 6016 Mahindra 6017 Maruti K 6018 Chevrolet Hyde 6018 rows × 4 columns fuel = pd.DataFra loc= pd.DataFra loc= pd.DataFra fuel = pd.DataFr	ation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual pernai CNG Manual pernai CNG Manual pernai Diesel Manual pernai Diese	한 위해 2328을 삭제한 1328만 해주면 된다. 함해준다. 데이터프레임 객체로 저 마변수화 한다.	/장한 뒤,	axis = 1)	e_Honda Name_ 0 0 1 0 0 0 0 0	Hyundai Lo		0 0 0 0 0 0	on_Kolkata Locat 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Mu
#####################################	ain_num()에서와 같은 전처리를 해주? 안한 전처리를 모두 마쳤기 때문에 2 cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual pennai Diesel Manual p	# 위해 2328을 삭제한 328만 해주면 된다. # 이이터프레임 객체로 저 미변수화 한다. 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이	Name_Fiat Name_Force N. 0	ame_Ford Name 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	e_Honda Name_ 0 0 1 0 0	Hyundai Lor 0 1 0 0 0 0	cation_Jaipur Loca O O O O O O O O O O O O O O O O O O	0 0 0 0 0 	0 0 0 0 0 0	tion_Mu
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## ## ## ## ## ## ## ## ## ## ## ## ##	ain_numol/AP 같은 정치리를 해주기만한 전치리를 모두 마쳤기 때문에 2 cation Fuel_Type Transmission umbai CNG Manual Pune Diesel Manual Pune Diesel Manual pennai Delesel Manual pennai Diesel Manual Daipur Diesel Manual Dai	### Power Name Datsun Name	Name_Fiat Name_Force Name_Fiat Name_Force Name	ame_Ford Name O O O O O O O O O O O O O O O O O O	BMW Locat 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hyundai Lo. 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Kochi Location 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Pur 0 1 0 0
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### ### ### ### ### ### ### ### ### ##	atin numoNA와 같은 전체는 해우 2만한 전체리를 모두 마쳤기 때문에 2 2만이 Manual Diapur Diesel Manual Diesel Diese	### Power Name_Datsun Nam	Name_Fiat Name_Force Name Na	ame_Ford Name 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EHONDA Name_ 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	######################################	tion_Kochi Location 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Pur 0 1 0 0 0 0
### ### ### ### ### ### ### ### ### ##	### ADDRESS ### A	### Power P	Seats Price Name Name	ame_Ford Name 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EMW Location O O O O O O O O O O O O O O O O O O O	ion_Jaipur Location 0 0 0 0 0 0 0 0	ttion_Kochi	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Pun 0 1 0 0 0 0 0 0 0 1 1 0 1 1 1 1 1 1 1
### ### ### ### ### ### ### ### ### ##	### A PART ### A	### Power Po	Seats	ame_Ford Name 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	e_Honda Name_	ion_Jaipur Location O	tion_Kochi Location NaN Location O O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tion_Pun 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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### Audi	and the property of the prope	## Engine Power Compared Power P		ame_Ford Name_ O	BMW Location 0.0	ion_Jaipur Location NaN Location NaN Location NaN Location	tion_Kochi Location	Collection	on_Mumbai Location NaN Location	tion_Pur 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
### Company	andon Fuel Type Transmission upon the part of the par	## Engine Power 1-039639 -1.322781 3-0.065158 0.533671 3-0.065158		ame_Ford Name O O O O O O O O O O O O O O O O O O O		ion_Jaipur Location ion_Jaipur Location ion_O 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 1 1 1 2 3 4 5 6: 'Seats', 7: ion_Jaipur Location 0 0 0 0 0 0 0 1 1 1 2 3 4 5 6	tion_Kochi Location O	O	on_Mumbai Location NaN Location	tion_Pun 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
### ### ### ### ### ### ### ### ### ##	### A Part	## Engine Power Commeters_Driven', 2: Commeters_Dr	Seats	ame_Ford Name_ O	EMW Location Na	ion_Jaipur Location ion_Jaipur Location ion_O 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 1 0 1 1 1 1 1 2 3 4 5 6 7 6 7 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 8 8 8 8 8 8 9	ttion_Kochi Location_ 0	Complete Complete	Mumbai Location NaN Do_Mumbai	tion_Pun 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
######################################	### ### ### ### ### ### ### ### ### ##	## Engine Power 1 -0.205323 -0.486777 - Engine Power 0.0000000 0.0000000 0.0000000 0.0000000 0.0000000 0.00000000	Seats	ame_Ford Name_ O	EMW Location Na	ion_Jaipur Location ion_Jaipur Location ion_O 0 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0 1 0 0 1 0 1 0 1 1 1 1 1 2 3 4 5 6 7 6 7 6 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7 8 8 8 8 8 8 9	ttion_Kochi Location_ 0	Con_Kolkata Location	Mumbai Location NaN Do_Mumbai	tion_Pur 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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