

W

7. A

Input variables (

1 - fixed acidity, 2 - volatile acidity, 3 - citric acid, 4 -
dioxide, 8 - density,,

Output variable (based on sensc

Run #	num_iters	rate	initial thetas
1	3000	0.0001	[0.59032516
			0.88386129
			0.32016442
			0.13933556
			0.71139751
			0.31098949
			0.02996848
			0.77422878
			0.91673248
			0.1620546
2	30000	0.0001	0.27254756]
			[0.43623829
			0.39451503
			0.48422476
			0.57032001
			0.50250363
			0.82082262
			0.55169396
			0.92470118
			0.09077585
			0.56253842
			0.97950525]

3	30000	0.00001	[0.46814341
			0.65931526
			0.44954241
			0.66544848
			0.30246535
			0.69133692
			0.02947311
			0.32299339
			0.54447064
			0.62668132
			0.48449688]
			[0.33308001
4	70000	0.0001	0.42090815
			0.9206524
			0.93717661
			0.29452913
			0.657837
			0.39968753
			0.95794778
			0.52437033
			0.34927309
			0.81118816]
			[0.83539896
			0.4927948
5	60000	0.00035	0.23624882
			0.43283891
			0.21489733
			0.5807906
			0.36407335
			0.37906504
			0.32673923
			0.27023929
			0.48605227]

6	10000	0.00007	[0.91881269
			0.95929696
			0.45489978
			0.18553988
			0.30436729
			0.99250272
			0.91878402
			0.34160723
			0.48138968
			0.37428045
			0.19686695]
			[0.07630829
			0.77991879
			0.43840923
7	5000	0.0007	0.72346518
			0.97798951
			0.53849587
			0.50112046
			0.07205113
			0.26843898
			0.4998825
			0.67923]
			[0.89286015
			0.33197981
8	5000	0.00017	0.82122912
			0.04169663
			0.10765668
			0.59505206
			0.52981736
			0.41880743
			0.33540785
			0.62251943
			0.43814143]

9	15000	0.00017	[0.5488135 0.71518937 0.60276338 0.54488318 0.4236548 0.64589411 0.43758721 0.891773 0.96366276 0.38344152 0.79172504]
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10	30000	0.00017	[4.17022005e-01 7.20324493e-01 1.14374817e-04 3.02332573e-01 1.46755891e-01 9.23385948e-02 1.86260211e-01 3.45560727e-01 3.96767474e-01 5.38816734e-01 4.19194514e-01]
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inequality-red.csv

tribute information:

(based on physicochemical tests):

· residual sugar, 5 – chlorides, 6 - 1
9 – pH, 10 – sulphates, 11 – alcohol

ory data): , 12 - quality (score between

Thetas	Last 10 costs
[1.89813405	[8.15441131
0.60988841	8.15269441
0.18822966 -	8.15097792
0.0184213	8.14926185
0.41855506	8.14754618
0.12720926	8.14583093
-0.09786632	8.14411608
0.51727151	8.14240165
0.45508735	8.14068762
0.33278735	8.13897401]
0.19584337]	
[5.37717933	[0.27533789
0.39242434 -	0.27532978
0.05334264	0.27532168
0.19452015	0.27531358
0.11918044 -	0.27530547
0.08448652	0.27529737
-0.03722523 -	0.27528928
0.02932651 -	0.27528118
0.42464679	0.27527308
0.30047415	0.27526499]
0.23517455]	

[1.80756925	[8.24234562
0.47065471	8.24217988
0.337946	8.24201415
0.49279306	8.24184842
0.15119881	8.24168269
0.42015132	8.24151697
-0.02636217	8.24135125
0.18708361	8.24118554
0.20955082	8.24101982
0.70102721	8.24085412]
0.33298207]	

[5.63118855	[0.22579646
0.22205664 -	0.22579628
0.10713788	0.22579611
0.13790041	0.22579594
0.11800863 -	0.22579577
0.13562561	0.2257956
0.03517671 -	0.22579543
0.13329688 -	0.22579526
0.33819308	0.22579508
0.10805003	0.22579491]
0.21726983]	

[5.63602251	[0.22266663
0.2956749 -	0.22266663
0.1752053	0.22266663
0.01135852	0.22266663
0.13319583 -	0.22266663
0.10814081	0.22266663
0.04021451 -	0.22266663
0.12954196 -	0.22266663
0.35365144	0.22266663
0.09501106	0.22266663]
0.21367535]	

[3.29358283	[3.31119756
0.67661124	3.31075861
0.12195737	3.31031973
0.04504308	3.30988091
0.030697	3.30944216
0.42117972	3.30900347
0.45125819 -	3.30856485
0.09590119 -	3.30812629
0.1059958	3.3076878
0.50750175	3.30724937]
0.05863367]	
[5.46833933	[0.25234281
0.41200827 -	0.25231623
0.03770189	0.25228969
0.18960746	0.25226318
0.15640503 -	0.2522367
0.09208557	0.25221025
0.10173232 -	0.25218383
0.18133804 -	0.25215744
0.46072165	0.25213108
0.26094439	0.25210476]
0.22202212]	
[3.60887058	[2.49092088
0.36705909	2.4901461
0.23288255	2.48937158
0.18030378 -	2.48859734
0.02626978	2.48782336
0.13856338	2.48704966
0.16412976 -	2.48627622
0.01028878 -	2.48550306
0.07319143	2.48473016
0.45536418	2.48395754]
0.28460436]	

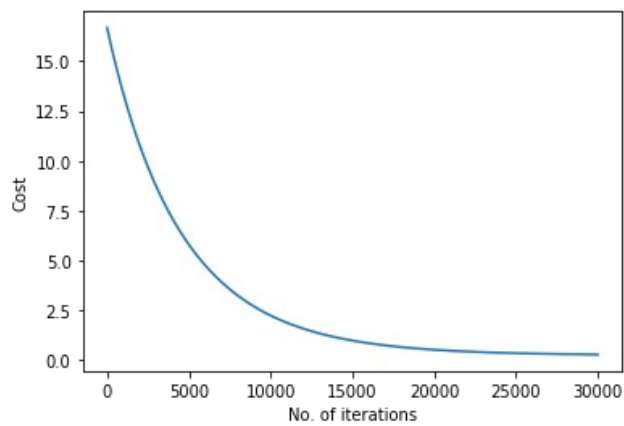
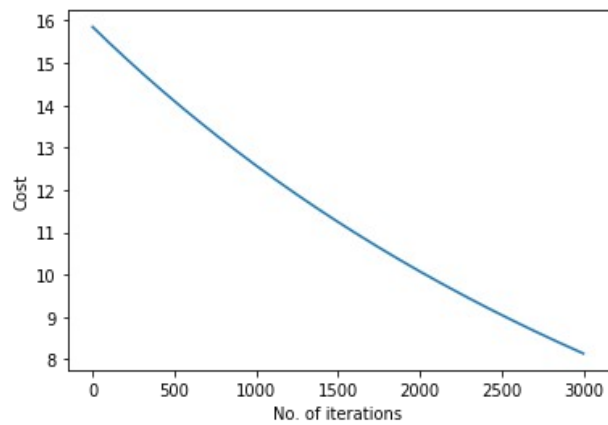
[5.23889086	[0.32953539
0.29067315 -	0.32950385
0.07459622	0.32947232
0.18407001	0.3294408
0.03601113 -	0.32940929
0.10515169	0.32937779
-0.04507089 -	0.3293463
0.01126122 -	0.32931482
0.24478367	0.32928335
0.30631584	0.3292519]
0.23849063]	

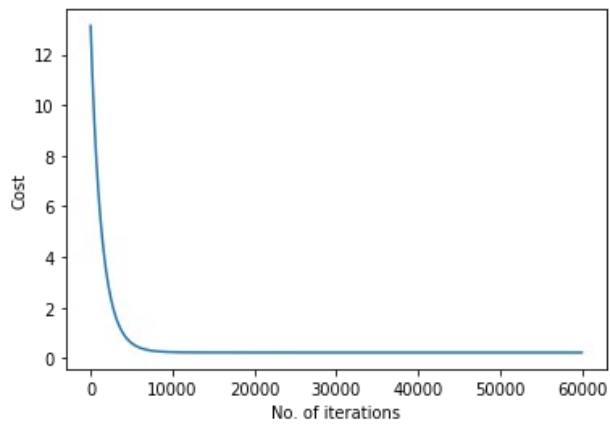
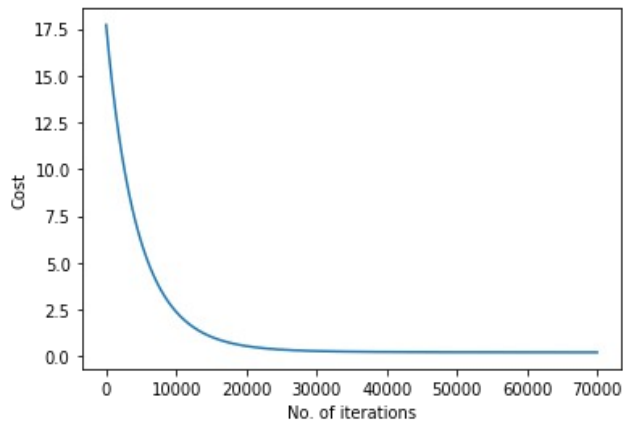
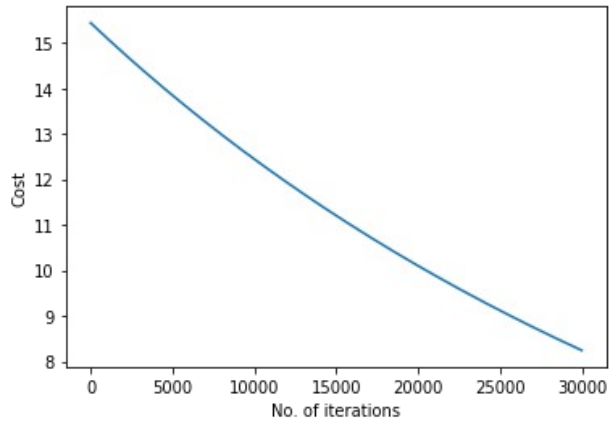
[5.60421738	[0.2250945
0.37023374 -	0.2250941
0.1784802	0.2250937
0.01827044	0.22509331
0.12100759 -	0.22509291
0.08670294	0.22509251
0.00666292 -	0.22509212
0.07801987 -	0.22509172
0.37062834	0.22509133
0.18083456	0.22509093]
0.20705593]	

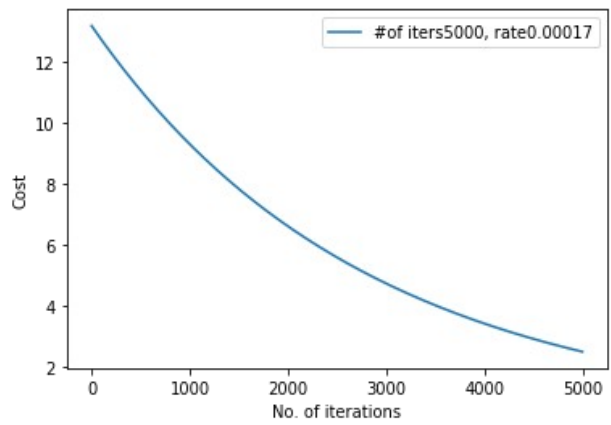
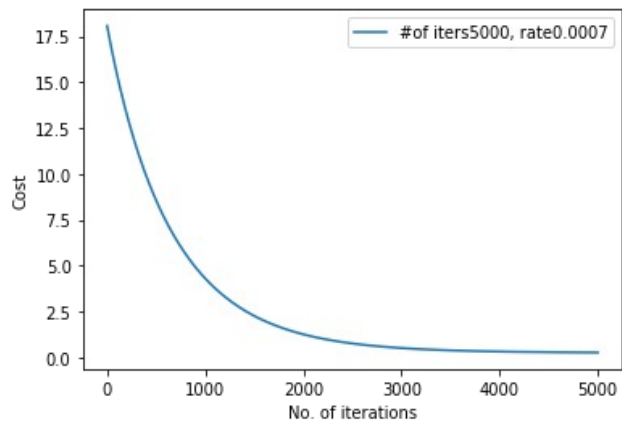
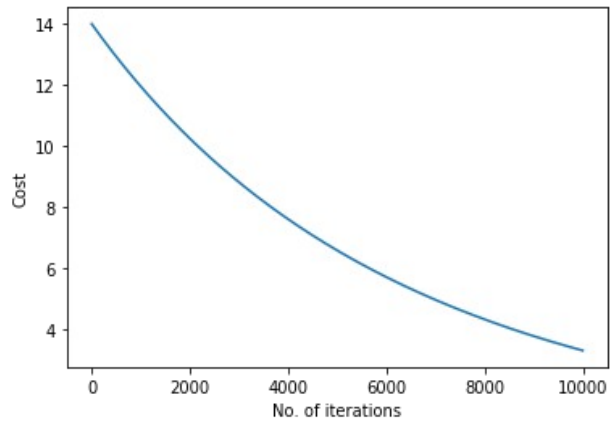
free sulfur dioxide, 7 – total & sulfur
101

en 0 and 10)

Line Curve of the cost & Iterations







Sheet1

