

Ateneo de Naga University
ICST304 - Artificial Intelligence
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Report on Assignment #3
Logistic Regression of Breast Cancer Data
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Training Time: 4 Hours
Final Cost: 0.07532078416226563
Number of Iterations: 101449
Accuracy: 662 out of 683 samples (**96.925%**)

Theta:

x0	-10.1039
x1	0.535009
x2	-0.00628
x3	0.322706
x4	0.330634
x5	0.096633
x6	0.383024
x7	0.447184
x8	0.21303
x9	0.534828

False Predictions:

Sample No.	Actual	Prediction	Decimal Representation of Prediction
1	0	1	0.900112
3	0	1	0.762724
12	1	0	0.300402
41	1	0	0.414938
49	1	0	0.356222
61	1	0	0.463187
99	1	0	0.154584
142	1	0	0.484879
190	0	1	0.996797
216	1	0	0.060257
226	0	1	0.674128
244	0	1	0.974596
251	0	1	0.79649
265	1	0	0.420131
285	0	1	0.719013
306	0	1	0.793009
334	1	0	0.378627
342	1	0	0.269285
419	0	1	0.958024
474	1	0	0.200029
479	0	1	0.613168