Iteration 4000 | Cost: 4.717550e-01

Iteration 4000 | Cost: 4.902871e-01

all\_theta =

-7.2652093 0.0864867 0.0347901 -0.0152482 -0.0015247 -0.0014874 0.0664729 1.3611076 0.0104475

6.9745758 -0.0862136 -0.0339588 0.0156783 0.0016728 0.0014139 -0.0629645 -1.3485749 -0.0095796

Training Set Accuracy: 78.627968

TP = 74.000000, TN = 224.000000, FP = 22.000000, FN = 59.000000

Case 1:1

Case 2:1

Case 3:1

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CONVERGENCE RATES

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Learning rate = 0.1

Convergence at 2500

Learning rate = 0.01

Convergence at 4000

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COMPARING RESULTS

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Inbuilt function: Accuracy = 78.78%

By gradient descent: Accuracy = 78.63%