ENGR 421 HW-3

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1) I generated a data set.

2) I calculated the derivative of sigmoid and created gradient functions according to that function via using chain rule for weights w and w_0.

3) After that I implemented a gradient descent algorithm with least square error function given learning parameters.

4) Finally, I plotted a confusion matrix for both data sets by using predictions and actual labels. Also, I marked misclassified data.