ENGR 421 Homework 2

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Text

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* In the first part of the code I imported the required libraries and created data structure that will be needed in the rest of the project. I implemented the given data using pd.read function from pandas library and created ytruth and ytruthtest variables. I divided the given images and labels into two parts train and test using a for loop.

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* In this part of the project I defined sigmoid, gradient\_W and gradiend\_w0 functions as shown in the lab sections. Then I used these functions inside an iterative algorithm where I finish the training part and obtain Y\_predicted for the first confusion matrix and W, w0 for the prediction of test data. I used the error function in chapter 10.8.

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* Here I created the confusion matrix using pandas library and plotted the output below.

Graphical user interface

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