

CS 4824 / ECE 4424 HW 2 Rubric (Programming Portion) [Total Points: 15]

We will be running the two iPython Notebooks and evaluate using the following rubric:

For synthetic_exps Notebook:

1. [2 points] (perceptron) Output of cell 9: (result should be within ± 0.05 of the answers below)

```
Test Accuracy for Separable Data: 0.950000
Test Accuracy for Noisy Data: 0.600000
```

2. [3 points] (logistic regression) Output of cell 10: (should be less than $1e-2$)

```
Provided gradient differed from numerical approximation by 4.241925e-06 (should be around  $1e-3$  or less)
```

3. [2 points] (logistic regression) Output of cell 11: (result should be within ± 0.05 of the answers below)

```
Test Accuracy for Separable Data: 0.990000
Test Accuracy for Noisy Data: 0.670000
```

For cardio_exps Notebook:

4. [4 points] (perceptron) Output of cell 6: (result should be within ± 0.05 of the answers below)

```
Train Accuracy: 0.771944
Test Accuracy: 0.521176
```

5. [4 points] (logistic regression) Output of cell 8: (result should be within ± 0.05 of the answers below)

```
Train Accuracy: 0.900470
Test Accuracy: 0.625882
```