CISC 684 Group project 2

Group 5

Jie Ren

Long Chen

Yun Tang

Yifan Wang

1. **Naïve Bayes**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Dataset 1 | Dataset 2 | Dataset 3 |
| Accuracy | 0.9372 | 0.9320 | 0.6537 |

1. **Logistic Regression**

Learning rate: 0.0001

|  |  |  |  |
| --- | --- | --- | --- |
|  | Dataset 1 | Dataset 2 | Dataset 3 |
|  | 0.01 | 0.01 | 0.01 |
| Accuracy | 0.9121 | 0.9276 | 0.9632 |
| Iteration | 400 | 400 | 400 |

1. **Perceptron**

Learning rate: 0.0001

Iterations are chosen from 10, 30, 50

|  |  |  |  |
| --- | --- | --- | --- |
|  | Dataset 1 | Dataset 2 | Dataset 3 |
| Accuracy | 0.8808 | 0.9035 | 0.9503 |
| Iteration | 10 | 30 | 10 |