**Adaboost Report**

Adaboost Tests:

|  |  |  |
| --- | --- | --- |
| Number of Stumps | Test Accuracy | Time Taken |
| 1 | 67.33% | Approx 3 minutes |
| 2 | 75.50% | Approx 3 minutes |
| 3 | 84.19% | Approx 4 miutes |
| 4 | 87.38% | Approx 4 minutes |
| 10 | 90.98% | Approx 5 minutes |
| 50 | 93.00% | Approx 6 minutes |
| 100 | 93.31% | Approx 7 minutes |
| 500 | 93.676% | Approx 10 minutes |

Output:

No. of Stumps = 3

('Accuracy: ', 87.91092258748674)

Confusion Matrix:

239 0 0 0

32 192 0 0

45 0 191 0

37 0 0 207

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No. of Stumps: 4

('Accuracy: ', 88.22905620360551)

Confusion Matrix:

239 0 0 0

44 180 0 0

38 0 198 0

29 0 0 215

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No. of Stumps: 10

('Accuracy: ', 91.72852598091198)

Confusion Matrix:

239 0 0 0

22 202 0 0

33 0 203 0

23 0 0 221

No. of Stumps: 100

('Accuracy: ', 93.6373276776246)

Confusion Matrix:

239 0 0 0

16 208 0 0

29 0 207 0

15 0 0 229