Dataset 1 : http://www.utdallas.edu/~axn112530/cs6375/creditset.csv

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Avg of 10 samples |
| Decision Tree | Info Gain | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernel=Linear | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Naïve Bayesian | - | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| kNN | k=7 | 82.5 | 83.5 | 87 | 79 | 82.5 | 84.5 | 80.5 | 83.5 | 88.5 | 87.5 | 83.9 |
| Logistic Regression | - |  |  |  |  |  |  |  |  |  |  |  |
| Neural Network | - | 84.5 | 86.5 | 86.5 | 85.5 | 80.5 | 82 | 86.5 | 81 | 84.5 | 87.5 | 84.5 |
| Bagging | - |  |  |  |  |  |  |  |  |  |  |  |
| Random Forest | - | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Boosting | - | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.5 | 100 | 99.95 |

Dataset 2: http://www.ats.ucla.edu/stat/data/binary.csv

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Avg of 10 samples |
| Decision Tree | Info Gain | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernel=Linear | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Naïve Bayesian | - | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| kNN | k=7 | 85 | 92.5 | 72.5 | 82.5 | 87.5 | 82.5 | 87.5 | 85 | 77 | 85 | 83.75 |
| Logistic Regression | - |  |  |  |  |  |  |  |  |  |  |  |
| Neural Network |  | 72.5 | 82.5 | 70 | 80 | 80 | 62.5 | 77.5 | 70 | 82.5 | 65 | 74.25 |
| Bagging |  |  |  |  |  |  |  |  |  |  |  |  |
| Random Forest |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Boosting |  | 55 | 65 | 60 | 67.5 | 67.5 | 72.5 | 62.5 | 62.5 | 65 | 65 | 64.25 |

Dataset 3: http://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer-wisconsin/wpbc.data

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Avg of 10 samples |
| Decision Tree | Info Gain | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernel=Linear | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Naïve Bayesian | - | 100 | 100 | 95 | 90 | 100 | 90 | 95 | 95 | 90 | 95 | 95 |
| kNN | k=7 | 70 | 75 | 70 | 65 | 70 | 65 | 85 | 75 | 65 | 70 | 71 |
| Logistic Regression | - |  |  |  |  |  |  |  |  |  |  |  |
| Neural Network |  | 65 | 85 | 75 | 90 | 80 | 70 | 70 | 85 | 75 | 75 | 77 |
| Bagging |  |  |  |  |  |  |  |  |  |  |  |  |
| Random Forest |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Boosting |  | 65 | 70 | 80 | 85 | 75 | 90 | 75 | 85 | 75 | 70 | 77 |

Dataset 4: http://archive.ics.uci.edu/ml/machine-learning-databases/breast-cancer-wisconsin/wdbc.data

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Avg of 10 samples |
| Decision Tree | Info Gain | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernel=Linear | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Naïve Bayesian | - | 98.24 | 96.49 | 96.49 | 94.74 | 98.24 | 98.24 | 94.74 | 98.24 | 100 | 96.49 | 97.19 |
| kNN | k=7 | 75.44 | 73.68 | 71.93 | 68.42 | 66.67 | 66.67 | 64.91 | 73.68 | 73.68 | 80.70 | 71.58 |
| Logistic Regression | - |  |  |  |  |  |  |  |  |  |  |  |
| Neural Network |  | 68.42 | 57.89 | 54.38 | 63.16 | 68.42 | 68.42 | 49.12 | 57.89 | 66.67 | 77.19 | 63.16 |
| Bagging |  |  |  |  |  |  |  |  |  |  |  |  |
| Random Forest |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 96.49 | 99.64 |
| Boosting |  | 96.24 | 98.49 | 100 | 96.49 | 92.98 | 96.49 | 91.23 | 98.24 | 96.49 | 96.49 | 96.31 |

Dataset 5: http://archive.ics.uci.edu/ml/machine-learning-databases/ionosphere/ionosphere.data

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Avg of 10 samples |
| Decision Tree | Info Gain | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernel=Linear | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Naïve Bayesian | - | 94.44 | 97.22 | 94.44 | 91.66 | 97.22 | 100 | 94.44 | 100 | 94.44 | 97.22 | 96.11 |
| kNN | k=7 | 86.11 | 86.11 | 91.67 | 80.56 | 91.67 | 91.67 | 94.44 | 97.22 | 88.89 | 94.44 | 90.28 |
| Logistic Regression | - |  |  |  |  |  |  |  |  |  |  |  |
| Neural Network |  | 69.44 | 80.55 | 75 | 75 | 75 | 83.33 | 80.56 | 72.22 | 69.44 | 66.67 | 74.72 |
| Bagging |  |  |  |  |  |  |  |  |  |  |  |  |
| Random Forest |  | 97.22 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 99.72 |
| Boosting |  | 88.88 | 86.11 | 94.44 | 100 | 97.22 | 94.44 | 94.44 | 91.67 | 80.56 | 94.44 | 92.22 |