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|  |  | Accuracy for Dataset 1 | | | | | | | | | | |
| Methods | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision tree | minsplit=2,minbucket=1 | 100 | 100 | 100 | 100 | 100 | 99.5 | 100 | 100 | 100 | 100 | 99.95 |
| SVM | Kernel=radial | 99 | 97.5 | 98.5 | 98.5 | 97.5 | 96 | 97.5 | 99 | 97.5 | 99.5 | 98.05 |
| Naive Bayes | None | 97.5 | 97.5 | 96 | 96 | 96 | 96.5 | 96.5 | 96.5 | 95.5 | 98 | 96.6 |
| kNN | K=3 | 82.5 | 81 | 81.5 | 84.5 | 79.5 | 82.5 | 85 | 80.5 | 82.5 | 84.5 | 82.4 |
| Logistic Regression | PredictedValue>0.5 | 97 | 95 | 94 | 96 | 93.5 | 94.5 | 97 | 95 | 95.5 | 95.5 | 95.3 |
| Neural Networks | linear.output = FALSE,threshold=0.5 | 85 | 83.5 | 84.5 | 86 | 82.5 | 88 | 85.5 | 82 | 85 | 89.5 | 85.15 |
| Bagging | Coob=TRUE | 84.16 | 85.36 | 79.25 | 86.01 | 86.09 | 82.29 | 85.18 | 83.03 | 84.86 | 81.44 | 83.77 |
| Boosting | iter=20, nu=1, type=discrete" | 100 | 100 | 100 | 100 | 100 | 99.5 | 100 | 100 | 100 | 100 | 99.95 |
| Random Forest | ntree=400 | 100 | 100 | 100 | 100 | 99.5 | 99.5 | 100 | 100 | 99.5 | 100 | 99.95 |

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|  |  | Accuracy for Dataset 2 | | | | | | | | | | |
| Methods | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision tree | minsplit=2,minbucket=1 | 65 | 70 | 72.5 | 77.5 | 67.5 | 57.5 | 62.5 | 72.5 | 65 | 62.5 | 67.25 |
| SVM | Kernel=radial | 65 | 70 | 70 | 77.5 | 65 | 70 | 62.5 | 72.5 | 62.5 | 67.5 | 68.25 |
| Naive Bayes | None | 65 | 70 | 67.5 | 77.5 | 65 | 70 | 62.5 | 60 | 60 | 60 | 65.75 |
| kNN | K=3 | 85 | 87.5 | 95 | 95 | 90 | 87.5 | 92.5 | 87.5 | 85 | 92.5 | 89.75 |
| Logistic Regression | PredictedValue>0.5 | 65 | 67.5 | 70 | 77.5 | 67.5 | 65 | 65 | 67.5 | 55 | 67.5 | 66.75 |
| Neural Networks | linear.output = FALSE,threshold=0.5 | 65 | 67.5 | 70 | 75 | 60 | 72.5 | 65 | 67.5 | 60 | 67.5 | 67 |
| Bagging | coob=TRUE | 62.96 | 59.93 | 52.77 | 63.49 | 63.07 | 60.30 | 56.83 | 49.23 | 62.34 | 57.4 | 58.73 |
| Boosting | iter=20, nu=1, type=discrete" | 67.5 | 80 | 77.5 | 75 | 67.5 | 57.5 | 67.5 | 67.5 | 60 | 67.5 | 68.75 |
| Randm Forest | ntree=400 | 70 | 72.5 | 75 | 75 | 65 | 67.5 | 62.5 | 75 | 65 | 77.5 | 70.5 |

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|  |  | Accuracy for Dataset 3 | | | | | | | | | | |
| Methods | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision tree | minsplit=2,minbucket=1 | 70 | 80 | 80 | 75 | 75 | 80 | 55 | 80 | 80 | 80 | 75.5 |
| SVM | Kernel=radial | 75 | 75 | 80 | 70 | 75 | 70 | 55 | 90 | 80 | 80 | 75 |
| Naive Bayes | None | 75 | 75 | 65 | 70 | 80 | 85 | 65 | 70 | 75 | 75 | 73.5 |
| kNN | K=3 | 65 | 80 | 65 | 70 | 60 | 60 | 35 | 90 | 65 | 70 | 66 |
| Logistic Regression | PredictedValue>0.5 | 65 | 85 | 75 | 70 | 75 | 90 | 65 | 85 | 85 | 90 | 78.5 |
| Neural Networks | linear.output = FALSE,threshold=0.5 | 70 | 75 | 80 | 75 | 75 | 70 | 55 | 90 | 80 | 80 | 75 |
| Bagging | coob=TRUE | 69.03 | 70.88 | 69.03 | 78.61 | 67.94 | 61.29 | 81.01 | 65.38 | 73.07 | 57.05 | 69.33 |
| Boosting | iter=20, nu=1, type=discrete" | 70 | 70 | 80 | 95 | 75 | 80 | 55 | 70 | 80 | 80 | 75.5 |
| Random Forest | ntree=400 | 75 | 90 | 80 | 75 | 75 | 75 | 55 | 90 | 85 | 85 | 78.5 |

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|  |  | Accuracy for Dataset 4 | | | | | | | | | | |
| Methods | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision tree | minsplit=2,minbucket=1 | 96.49 | 92.98 | 94.73 | 92.98 | 96.49 | 92.9 | 98.2 | 94.7 | 100 | 85.96 | 94.5 |
| SVM | Kernel=radial | 100 | 96.49 | 96.49 | 96.49 | 100 | 98.2 | 100 | 94.7 | 98.2 | 92.9 | 97.3 |
| Naive Bayes | None | 96.49 | 92.98 | 94.73 | 96.49 | 92.98 | 91.2 | 96.4 | 89.4 | 96.4 | 85.9 | 93.3 |
| kNN | K=3 | 78.94 | 78.94 | 73.68 | 78.94 | 78.94 | 85.9 | 77.1 | 71.8 | 80.7 | 77.1 | 78.2 |
| Logistic Regression | PredictedValue>0.5 | 96.49 | 92.98 | 91.22 | 91.22 | 98.24 | 94.7 | 100 | 94.7 | 96.4 | 96.4 | 95.2 |
| Neural Networks | linear.output = FALSE,threshold=0.5 | 66.66 | 63.15 | 59.64 | 70.17 | 66.6 | 70.1 | 63.15 | 63.1 | 71.92 | 61.4 | 65.6 |
| Bagging | coob=TRUE | 49.12 | 53.47 | 59.74 | 58.35 | 46.5 | 53.9 | 57.29 | 56 | 59.35 | 55.5 | 54.9 |
| Boosting | iter=20, nu=1, type=discrete" | 96.49 | 94.73 | 100 | 96.49 | 98.2 | 94.7 | 96.4 | 94.7 | 96.4 | 91.2 | 95.9 |
| Random Forest | ntree=400 | 100 | 96.49 | 98.24 | 98.24 | 96.4 | 91.2 | 98.2 | 96.4 | 100 | 94.7 | 97.01 |

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|  |  | Accuracy for Dataset 5 | | | | | | | | | | |
| Methods | Best Parameters | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision tree | minsplit=2,minbucket=1 | 91.6 | 100 | 88.8 | 91.6 | 97.2 | 86.1 | 91.6 | 94.4 | 83.3 | 91.6 | 91.6 |
| SVM | Kernel=radial | 94.4 | 100 | 97.2 | 94.4 | 91.6 | 94.4 | 100 | 97.2 | 94.4 | 88.8 | 95.2 |
| Naive Bayes | None | 91.6 | 97.2 | 94.4 | 88.88 | 94.4 | 83.3 | 100 | 57.3 | 94.4 | 88.8 | 92.2 |
| kNN | K=3 | 80.5 | 88.8 | 100 | 94.4 | 86.1 | 97.2 | 97.2 | 97.2 | 91.6 | 80.5 | 91.3 |
| Logistic Regression | PredictedValue>0.5 | 86.1 | 94.4 | 88.8 | 86.11 | 86.1 | 91.6 | 91.6 | 97.2 | 91.6 | 77.7 | 88.8 |
| Neural Networks | linear.output = FALSE,threshold=0.5 | 91.6 | 83.3 | 97.2 | 91.66 | 83.3 | 97.2 | 100 | 83.3 | 97.2 | 86.1 | 92.5 |
| Bagging | coob=TRUE | 51.2 | 58.8 | 55.8 | 56.5 | 57.8 | 57.2 | 49.1 | 94.4 | 56.3 | 88.8 | 55.8 |
| Boosting | iter=20, nu=1, type=discrete" | 94.4 | 94.4 | 100 | 91.6 | 94.4 | 91.6 | 97.2 | 97.2 | 88.8 | 86.1 | 93.6 |
| Random Forest | ntree=400 | 94.4 | 100 | 97.2 | 94.4 | 91.6 | 91.6 | 100 | 97.2 | 97.2 | 88.8 | 95.2 |