|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | | | | | | | | | |  |
| Method | Best Param | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision Tree | Split =3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernal = Ker | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Naïve Bayes |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| KNN | K=5 | 80 | 83.5105 | 84.38105 | 85.38105 | 84.38105 | 84.38105 | 84.88105 | 84.38105 | 83.88105 | 84.38105 | 84.38105 |
| Logistic Regression |  | 77 | 78.22 | 77.22 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 86.22 |
| Neural network |  | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 |
| Bagging |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Boosting |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Random Forest |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Data set 1

Dataset 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | | | | | | | | | |  |
| Method | Best Param | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision Tree | Split =3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernal = Ker | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Naïve Bayes |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| KNN | K=5 | 80 | 83.5105 | 84.38105 | 85.38105 | 84.38105 | 84.38105 | 84.88105 | 84.38105 | 83.88105 | 84.38105 | 84.38105 |
| Logistic Regression |  | 77 | 78.22 | 77.22 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 86.22 |
| Neural network |  | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 |
| Bagging |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| Boosting |  | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Random Forest |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |

Dataset3

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | | | | | | | | | |  |
| Method | Best Param | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision Tree | Split =3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernal = Ker | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Naïve Bayes |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| KNN | K=5 | 80 | 83.5105 | 84.38105 | 85.38105 | 84.38105 | 84.38105 | 84.88105 | 84.38105 | 83.88105 | 84.38105 | 84.38105 |
| Logistic Regression |  | 77 | 78.22 | 77.22 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 86.22 |
| Neural network |  | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 |
| Bagging |  | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Boosting |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| Random Forest |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |

Dataset 4

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | | | | | | | | | |  |
| Method | Best Param | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision Tree | Split =3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernal = Ker | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Naïve Bayes |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| KNN | K=5 | 80 | 83.5105 | 84.38105 | 85.38105 | 84.38105 | 84.38105 | 84.88105 | 84.38105 | 83.88105 | 84.38105 | 84.38105 |
| Logistic Regression |  | 77 | 78.22 | 77.22 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 86.22 |
| Neural network |  | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 |
| Bagging |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| Boosting |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| Random Forest |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |

Dataset 5

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Accuracy | | | | | | | | | |  |
| Method | Best Param | Sample1 | Sample2 | Sample3 | Sample4 | Sample5 | Sample6 | Sample7 | Sample8 | Sample9 | Sample10 | Average |
| Decision Tree | Split =3 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| SVM | Kernal = Ker | 98.7 | 98.5 | 98.7 | 98.4 | 97.3 | 97.4 | 98.4 | 98.33 | 99.5 | 97.5 | 97.4 |
| Naïve Bayes |  | 97.4 | 96.5 | 96.4 | 97.5 | 96.4 | 96.0 | 95.7 | 99.9 | 97.0 | 99.1 | 98.6 |
| KNN | K=5 | 80 | 83.5105 | 84.38105 | 85.38105 | 84.38105 | 84.38105 | 84.88105 | 84.38105 | 83.88105 | 84.38105 | 84.38105 |
| Logistic Regression |  | 77 | 78.22 | 77.22 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 77.72 | 86.22 |
| Neural network |  | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 | 85.54 |
| Bagging |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Boosting |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| Random Forest |  | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |