LDA = 4

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.881 | Max\_iter=250 penalty=none tol=0.001 | 0.766 |

LDA = 5

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.881 | Max\_iter=10 penalty=none tol=0.1 | 0.766 |

LDA = 6

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=100 penalty=elasticent tol=0.001 | 0.792 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.893 | Max\_iter=500 penalty=elasticent tol=0.05 | 0.818 |

LDA = 7

LDA=8

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.893 | Max\_iter=100 penalty=none tol=0.001 | 0.818 |

LDA=9

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=3000 penalty=elasticent tol=0.05 | 0.792 |

LDA=10

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=1000 penalty=none tol=0.1 | 0.753 |

LDA=11

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=3000 penalty=elasticnet tol=0.001 | 0.818 |

LDA=12

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=3000 penalty=l2 tol=0.001 | 0.792 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Mean cross-validated score | Best Parameter | Test Accuracy |
| Perceptron | 0.825 | Eta0=0.00001 n\_iter=5 | 0.805 |
| Decision Tree | 0.842 | Max\_depth=4 min\_samples\_leaf=5 | 0.766 |
| KNN | 0.853 | Metric=minkowski n\_neighbours = 6 | 0.805 |
| SVM | 0.859 | C=10 gamma=1 kernel=rbf | 0.805 |
| SGD | 0.887 | Max\_iter=3000 penalty=elasticnet tol=0.001 | 0.818 |