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| --- | --- | --- | --- | --- | --- | --- |
| Model name | Model type | Model parameterss | Accuracy | Cross-Validation Score | Accuracy on test data | Time |
| LR\_model | Logistic Regression | Trained on whole data set | 100.000% | 100.000% | 1.0 | 21.62589454650879 |
| LR2\_model | Logistic Regression | Using Train Test Split | 100.000% | 100.000% | 1.0 | 18.634005784988403 |
| KNN\_model | K-Nearest Neighbors | Trained on whole data set | 100.000% | 94.649% | 0.9893805309734514 | 3.7020585536956787 |
| KNN2\_model | K-Nearest Neighbors | Using Train Test Split | 100.000% | 95.510% | 0.9486725663716814 | 3.0559489727020264 |
| DT\_model | Decision Tree | Trained on whole data set | 100.000% | 100.000% | 1.0 | 0.2812485694885254 |
| DT2\_model | Decision Tree | Using Train Test Split | 100.000% | 100.000% | 1.0 | 0.20312762260437012 |
| RF\_model | Random Forest | Trained on whole data set | 100.000% | 100.000% | 1.0 | 8.646293878555298 |
| RF2\_model | Random Forest | Using Train Test Split | 100.000% | 100.000% | 1.0 | 8.420527458190918 |
| NB\_model | Naive Bayes | Trained on whole data set | 70.783% | 70.943% | 0.7256637168141593 | 0.2187495231628418 |
| NB2\_model | Naive Bayes | Using Train Test Split | 69.915% | 70.113% | 0.7185840707964601 | 0.2031240463256836 |
| SVM\_model | Surportting vector machine | Trained on whole data set | 99.787% | 99.770% | 0.9964601769911504 | 6.277535438537598 |
| SVM2\_model | Surportting vector machine | Using Train Test split | 99.783% | 99.744% | 0.9964601769911504 | 5.631661415100098 |
| SV\_model | Soft voting | (LR+KNN+DT)  Trained on whole data set | 100.000% | 100.000% | 1.0 | 23.97971510887146 |
| SV2\_model | Soft Voting | (LR+KNN+DT)  Using Train Test Split | 100.000% | 100.000% | 1.0 | 22.771947145462036 |
| HV\_model | Hard Voting | Trained on whole data set | 100.000% | 100.000% | 1.0 | 23.459754705429077 |
| HV2\_model | Hard Voting | Using Train Test Split | 100.000% | 100.000% | 1.0 | 22.355638027191162 |
| Stack1\_model | Stacking | Using KNN as Meta  Estimators = lr2 + knn2 + dtree2 + hard\_vote2 | 100.000% | 100.000% | 1.0 | 231.32462573051453 |
| Stack2\_model | Stacking | Using Logistic Regression as Meta:  Estimators = knn + dtree + soft\_vote | 38.200% | 63.413% | 0.40530973451327434 | 166.40533304214478 |
| Stack3\_model | Stacking | Using Logistic Regression as Meta:  estimators = knn2 + dtree + soft\_vote2 + hard\_vote2 | 100.000% | Cross-Validation Score : 100.000% | 1.0 | 257.51248383522034 |