**Performance metrics**

Represent the six classifiers performance on WBCD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN |
| Precision | 0.947 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| F1-measures | 0.959 | 0.987 | 1.00 | 0.987 | 0. 987 | 1.00 |
| Specificity | 0.9 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Sensitivity or Recall | 0.973 | 0.974 | 1.00 | 0.974 | 0.974 | 1.00 |
| False Discovery Rate (FDR) | 0.053 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| False Omission Rate (FOR) | 0.053 | 0.053 | 0.053 | 0.053 | 0.053 | 0.00 |

Represent another six classifiers performance on WBCD

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameters | AB | RF | VC | SGD | BC | GB |
| Precision | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| F1-measures | 0.987 | 1.00 | 0.987 | 0.974 | 0.987 | 1.00 |
| Specificity | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Sensitivity or Recall | 0.974 | 1.00 | 0.974 | 0.974 | 0.974 | 1.00 |
| False Discovery Rate (FDR) | 0.00 | 0.00 | 0.00 | 0.026 | 0.00 | 0.00 |
| False Omission Rate | 0.053 | 0.00 | 0.053 | 0.00 | 0.053 | 0.00 |

REPRESENT THE SIX CLASSIFIERS PERFORMANCE ON WBC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN |
| Precision | 0.975 | 1.00 | 0.975 | 1.00 | 0.98 | 0.95 |
| F1-measures | 0.988 | 1.00 | 0.976 | 1.00 | 0.988 | 0.976 |
| Specificity | 0.966 | 1.00 | 0.933 | 1.00 | 1.00 | 1.00 |
| Sensitivity or Recall | 1.00 | 1.00 | 0.975 | 1.00 | 0.976 | 0.953 |
| False Discovery Rate | 0.024 | 0.00 | 0.049 | 0.00 | 0.00 | 0.00 |
| False Omission Rate | 0.00 | 0.00 | 0.068 | 0.00 | 0.034 | 0.069 |

REPRESENT THE ANOTHER SIX CLASSIFIERS PERFORMANCE ON WBC

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Parameters | AB | RF | VC | SGD | BC | GB |
| Precision | 0.95 | 1.00 | 1.00 | 1.00 | 1.00 | 0.975 |
| F1-measures | 0.976 | 1.00 | 1.00 | 1.00 | 1.00 | 0.976 |
| Specificity | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.964 |
| Sensitivity or Recall | 0.953 | 1.00 | 1.00 | 0.976 | 1.00 | 0.952 |
| False Discovery Rate | 0.00 | 0.00 | 0.00 | 0.024 | 0.00 | 0.024 |
| False Omission Rate | 0.069 | 0.00 | 0.00 | 0.034 | 0.00 | 0.069 |

**Results**

**Results obtained from the WBCD dataset**

|  |  |
| --- | --- |
| **Model** | **Accuracy** |
| **NB** | **94.74** |
| **LR** | **98.25** |
| **DT** | **100** |
| **SVM** | **98.25** |
| **LDA** | **98.25** |
| **KNN** | **100** |
| **AB** | **98.25** |
| **RF** | **100** |
| **VC** | **98.25** |
| **SGD** | **98.25** |
| **BC** | **98.25** |
| **GB** | **100** |

**Results obtained from the WBC dataset**

|  |  |
| --- | --- |
| **Model** | **Accuracy** |
| **NB** | **98.57** |
| **LR** | **100** |
| **DT** | **97.14** |
| **SVM** | **100** |
| **LDA** | **98.57** |
| **KNN** | **97.14** |
| **AB** | **97.14** |
| **RF** | **100** |
| **VC** | **100** |
| **SGD** | **100** |
| **BC** | **100** |
| **GB** | **94.28** |