**Training Performance**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN | AB | RF | VC | SGD | BC | GB |
| Precision | 0.949 | 0.974 | 0.945 | 0.969 | 0.978 | 0.974 | 0.983 | 1.0 | 0.986 | 0.964 | 0.983 | 1.0 |
| Recall or Sensitivity | 0.985 | 0.974 | 0.997 | 0.990 | 0.958 | 0.985 | 0.988 | 1.0 | 0.988 | 0.993 | 0.998 | 1.0 |
| Specificity | 0.907 | 0.948 | 0.902 | 0.941 | 0.956 | 0.949 | 0.967 | 1.0 | 0.972 | 0.933 | 0.968 | 1.0 |
| F1-Score | 0.967 | 0.974 | 0.970 | 0.979 | 0.968 | 0.979 | 0.986 | 1.0 | 0.987 | 0.978 | 0.990 | 1.0 |
| False Discovery Rate (FDR) | 0.050 | 0.026 | 0.055 | 0.031 | 0.022 | 0.026 | 0.017 | 0.0 | 0.014 | 0.035 | 0.017 | 0.0 |
| False Omission Rate (FOR) | 0.028 | 0.052 | 0.005 | 0.019 | 0.085 | 0.028 | 0.024 | 0.0 | 0.023 | 0.014 | 0.004 | 0.0 |

**Testing Performance**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN | AB | RF | VC | SGD | BC | GB |
| Precision | 0.976 | 1.0 | 0.976 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.976 |
| Recall or Sensitivity | 1.0 | 1.0 | 0.976 | 1.0 | 0.976 | ­­­­­0.953 | 1.0 | 1.0 | 1.0 | 0.976 | 1.0 | 0.976 |
| Specificity | 0.967 | 1.0 | 0.966 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.966 |
| F1-Score | 0.988 | 1.0 | 0.976 | 1.0 | 0.988 | 0.976 | 1.0 | 1.0 | 1.0 | 0.988 | 1.0 | 0.976 |
| False Discovery Rate (FDR) | 0.024 | 0.0 | 0.024 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.024 |
| False Omission Rate (FOR) | 0.0 | 0.0 | 0.034 | 0.0 | 0.034 | 0.069 | 0.0 | 0.0 | 0.0 | 0.034 | 0.0 | 0.034 |

**Training Accuracy**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN | AB | RF | VC | SGD | BC | GB |
| Accuracy | 95.707 | 96.502 | 96.184 | 97.297 | 95.707 | 97.297 | 98.092 | 100.0 | 98.251 | 97.138 | 98.728 | 100.0 |
| Cross validation | 95.691 | 96.503 | 95.233 | 96.503 | 95.230 | 97.140 | 95.709 | 97.140 | 96.662 | 95.947 | 97.299 | 96.188 |

**Testing Accuracy**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Parameters | NB | LR | DT | SVM | LDA | KNN | AB | RF | VC | SGD | BC | GB |
| Accuracy | 98.571 | 100.0 | 97.143 | 100.0 | 98.571 | 97.143 | 100.0 | 100.0 | 100.0 | 98.571 | 100.0 | 97.143 |
| Cross validation | 95.714 | 98.611 | 95.714 | 97.571 | 98.733 | 98.872 | 98.571 | 98.715 | 98.733 | 98.571 | 98.611 | 98.571 |