|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | *Discrete wavelet transform* | ***Sensitivity*** | ***Specificity*** | ***Accuracy*** | ***Positive Predictive Value*** | ***Negative Predictive Value*** | ***Area Under Curve*** |
| ***Logistic Regression*** | Before processing | 84 | 99.25 | 96.2 | 96.63889 | 96.15453 | 0.91625 |
| After processing | 92 | 97.25 | 96.2 | 90.62005 | 98.00291 | 0.94625 |
| ***K Neighbors*** | Before processing | 90 | 96.25 | 95 | 88.78022 | 97.47237 | 0.93125 |
| After processing | 92 | 96.25 | 95.4 | 89.18706 | 98.01927 | 0.94125 |
| ***Support Vector Classifier*** | Before processing | 88 | 98.5 | 96.4 | 94.68182 | 97.08096 | 0.9325 |
| After processing | 95 | 96.75 | 96.4 | 89.33866 | 98.74192 | 0.95875 |
| ***Gaussian NB*** | Before processing | 90 | 97 | 95.6 | 90.85165 | 97.49309 | 0.935 |
| After processing | 90 | 97.25 | 95.8 | 89.84343 | 97.492 | 0.93625 |
| ***Decision Tree*** | Before processing | 89 | 97.5 | 96.6 | 93.60606 | 97.33161 | 0.9375 |
| After processing | 84 | 97 | 95.4 | 89.45202 | 97.56466 | 0.92875 |
| ***DT Bagging*** | Before processing | 94 | 98 | 97.2 | 93.37413 | 98.52894 | 0.96 |
| After processing | 91 | 98.5 | 97 | 94.40404 | 97.8095 | 0.9475 |
| ***RF Bagging*** | Before processing | 94 | 98 | 97 | 93.37413 | 98.28504 | 0.95 |
| After processing | 94 | 98.5 | 97.2 | 93.34343 | 98.02928 | 0.96125 |
| ***ET Bagging*** | Before processing | 92 | 97.75 | 96.4 | 92.28322 | 97.80275 | 0.94875 |
| After processing | 96 | 98.5 | 98 | 94.69697 | 99.00578 | 0.96125 |
| ***Ada Boost*** | Before processing | 96 | 98 | 97.6 | 93.01515 | 98.99904 | 0.97 |
| After processing | 93 | 98.75 | 97.6 | 95.27273 | 98.30372 | 0.95875 |
| ***Gradient Boost*** | Before processing | 95 | 98 | 97.4 | 93.37413 | 98.76123 | 0.965 |
| After processing | 92 | 98.5 | 97.2 | 94.49495 | 98.0595 | 0.9525 |
| ***Voting (DT + Gaussian NB + Logistic)*** | Before processing | 89 | 97.75 | 96.4 | 94.68182 | 97.29083 | 0.93375 |
| After processing | 92 | 97.25 | 96.2 | 89.84343 | 97.49841 | 0.9475 |