Validation accuracies of various algorithms:

LR: 0.944936 (0.036690) (run time: 0.207199)

CART: 0.919679 (0.028997) (run time: 0.176112)

SVM: 0.628333 (0.092125) (run time: 0.657152)

NB: 0.934808 (0.047605) (run time: 0.052497)

KNN: 0.917436 (0.061228) (run time: 0.078448)

Validation accuracies after standardizing the dataset:

ScaledLR: 0.972436 (0.026095) (run time: 0.150050)

ScaledCART: 0.927179 (0.026017) (run time: 0.222640)

ScaledSVM: 0.972500 (0.030516) (run time: 0.217288)

ScaledNB: 0.924808 (0.044580) (run time: 0.122709)

ScaledKNN: 0.957436 (0.041881) (run time: 0.153426)

Testing accuracy score - 0.976608

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Precision | Recall | F1-score | Support |
| 0 | 0.96 | 1.00 | 0.98 | 107 |
| 1 | 1.00 | 0.94 | 0.97 | 64 |
| Avg / total | 0.98 | 0.98 | 0.98 | 171 |

Confusion Matrix:

|  |  |
| --- | --- |
| 107 | 0 |
| 4 | 60 |