|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Classification Model** | **Accuracy** | **Specificity** | **Sensitivity** | **Precision** | **AUC** | **F1-Score** | **MCC** |
| **DT** | 75.00 | 87.69 | 48.38 | 87.69 | 68.03 | 0.82 | 0.39 |
| **KNN(k=9)** | 77.08 | 86.15 | 58.06 | 86.15 | 72.10 | 0.83 | 0.45 |
| **RF** | 79.16 | 90.76 | 54.83 | 90.76 | 72 .80 | 0.85 | 0.49 |
| **LR** | 80.72 | 90.00 | 61.29 | 90.76 | 74.41 | 0.86 | 0.52 |
| **SVM(Linear)** | 80.20 | 90.00 | 59.67 | 82.39 | 74.83 | 0.86 | 0.52 |
| **SVM(RBF)** | 77.08 | 91.53 | 46.77 | 91.53 | 69.15 | 0.84 | 0.44 |
| **SVM(poly)** | 76.04 | 93.84 | 38.70 | 93.84 | 66.27 | 0.84 | 0.40 |
| **SVM(precomputed)** | 80.20 | 90.00 | 59.67 | 90 | 74.83 | 0.86 | 0.74 |

**Performance of Classification algorithms on PIDDD after Hyperparameter Tuning**