**Model prediction results using Min-Max**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Models | Disease | | | |
| Diabetic | | Non-Diabetic | |
| Accuracy | Loss | Accuracy | Loss |
| Logistic Regression | 0.99 | 0.0085 | 0.63 | 0.37 |
| Decision Tree | 1 | 0 | 0.46 | 0.54 |
| Random Forest | 1 | 0.0036 | 0.3 | 0.7 |
| KNN | 1 | 0.0023 | 0.59 | 0.41 |
| KMeans | 0.49 | 0.51 | 0.72 | 0.28 |
| Naïve Bayes | 0.93 | 0.071 | 0.66 | 0.34 |
| SVM | 1 | 0.0012 | 0.58 | 0.42 |

**Model prediction results using Standard Scaler**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Models | Disease | | | |
| Diabetic | | Non-Diabetic | |
| Accuracy | Loss | Accuracy | Loss |
| Logistic Regression | 0.99 | 0.0089 | 0.64 | 0.36 |
| Decision Tree | 1 | 0 | 0 | 1 |
| Random Forest | 0.99 | 0.006 | 0.66 | 0.34 |
| KNN | 1 | 0.003 | 0.6 | 0.4 |
| KMeans | 0.53 | 0.47 | 0.96 | 0.039 |
| Naïve Bayes | 0.92 | 0.077 | 0.62 | 0.38 |
| SVM | 1 | 0.0013 | 0.6 | 0.4 |

**Performance Evaluation Metrix for Min-Max Scaler.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Models | Diabetic | | | Non-Diabetic | | |
| Precision | Recall | F1-Score | Precision | Recall | F1-Score |
| Logistic Regression | 0.97 | 0.99 | 0.98 | 0.88 | 0.63 | 0.73 |
| Decision Tree | 0.95 | 1 | 0.98 | 1 | 0.46 | 0.63 |
| Random Forest | 0.97 | 1 | 0.98 | 0.95 | 0.7 | 0.81 |
| KNN | 0.96 | 1 | 0.98 | 0.96 | 0.59 | 0.73 |
| KMeans | 0.95 | 0.49 | 0.64 | 0.12 | 0.72 | 0.2 |
| Naïve Bayes | 0.97 | 0.93 | 0.95 | 0.47 | 0.66 | 0.55 |
| SVM | 0.96 | 1 | 0.98 | 0.98 | 0.58 | 0.73 |

**Performance Evaluation Metrix for Standard Scaler.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Models | Diabetic | | | Non-Diabetic | | |
| Precision | Recall | F1-Score | Precision | Recall | F1-Score |
| Logistic Regression | 0.97 | 0.99 | 0.98 | 0.87 | 0.64 | 0.74 |
| Decision Tree | 0.91 | 1 | 0.95 | 0 | 0 | 0 |
| Random Forest | 0.97 | 0.99 | 0.98 | 0.95 | 0.66 | 0.77 |
| KNN | 0.96 | 1 | 0.98 | 0.95 | 0.6 | 0.74 |
| KMeans | 0.99 | 0.53 | 0.69 | 0.16 | 0.96 | 0.28 |
| Naïve Bayes | 0.97 | 0.92 | 0.94 | 0.43 | 0.62 | 0.51 |
| SVM | 0.96 | 1 | 0.98 | 0.98 | 0.60 | 0.74 |