Classifier: Random Forest

Accuracy: 0.80

Precision: 0.91

Recall: 0.86

F1 Score: 0.89

Confusion Matrix:

[[ 0 3]

[ 5 32]]

Classification Report:

precision recall f1-score support

0 0.00 0.00 0.00 3

1 0.91 0.86 0.89 37

accuracy 0.80 40

macro avg 0.46 0.43 0.44 40

weighted avg 0.85 0.80 0.82 40

==================================================

Classifier: k-Nearest Neighbors

Accuracy: 0.95

Precision: 0.95

Recall: 1.00

F1 Score: 0.97

Confusion Matrix:

[[ 1 2]

[ 0 37]]

Classification Report:

precision recall f1-score support

0 1.00 0.33 0.50 3

1 0.95 1.00 0.97 37

accuracy 0.95 40

macro avg 0.97 0.67 0.74 40

weighted avg 0.95 0.95 0.94 40

==================================================

Classifier: Decision Tree

Accuracy: 0.80

Precision: 0.94

Recall: 0.84

F1 Score: 0.89

Confusion Matrix:

[[ 1 2]

[ 6 31]]

Classification Report:

precision recall f1-score support

0 0.14 0.33 0.20 3

1 0.94 0.84 0.89 37

accuracy 0.80 40

macro avg 0.54 0.59 0.54 40

weighted avg 0.88 0.80 0.83 40

==================================================

Classifier: Support Vector Machine

Accuracy: 0.93

Precision: 0.93

Recall: 1.00

F1 Score: 0.96

Confusion Matrix:

[[ 0 3]

[ 0 37]]

Classification Report:

precision recall f1-score support

0 0.00 0.00 0.00 3

1 0.93 1.00 0.96 37

accuracy 0.93 40

macro avg 0.46 0.50 0.48 40

weighted avg 0.86 0.93 0.89 40

A graph of a triangle

Description automatically generated with medium confidence