Evaluation Results - PCA

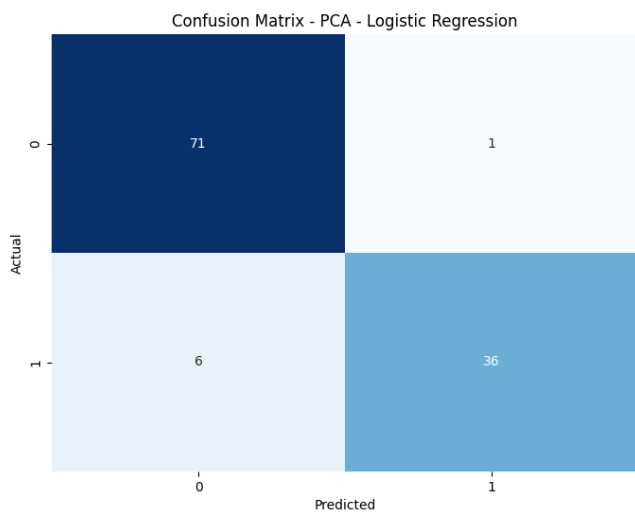**Model: Logistic Regression**

Accuracy: 0.9386

Classification Report:

0: precision: 0.92, recall: 0.99, f1-score: 0.95, support: 72.00

1: precision: 0.97, recall: 0.86, f1-score: 0.91, support: 42.00

macro avg: precision: 0.95, recall: 0.92, f1-score: 0.93, support: 114.00

weighted avg: precision: 0.94, recall: 0.94, f1-score: 0.94, support: 114.00

Confusion Matrix - PCA - Logistic Regression

Model: Random Forest
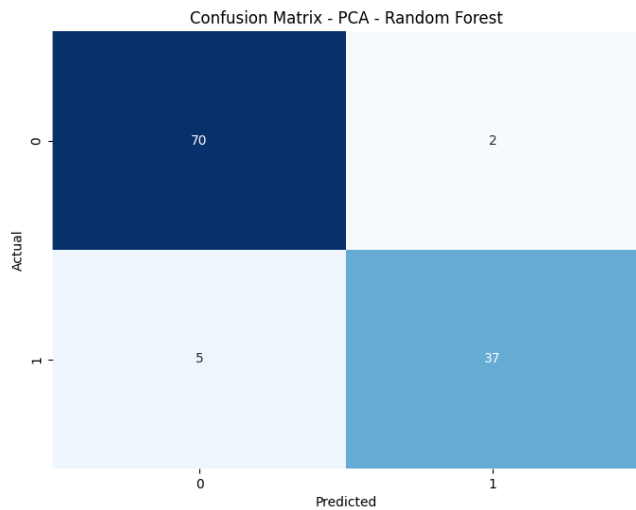
Accuracy: 0.9386

Classification Report:

0: precision: 0.93, recall: 0.97, f1-score: 0.95, support: 72.00

1: precision: 0.95, recall: 0.88, f1-score: 0.91, support: 42.00

macro avg: precision: 0.94, recall: 0.93, f1-score: 0.93, support: 114.00

weighted avg: precision: 0.94, recall: 0.94, f1-score: 0.94, support: 114.00

Confusion Matrix - PCA - Random Forest
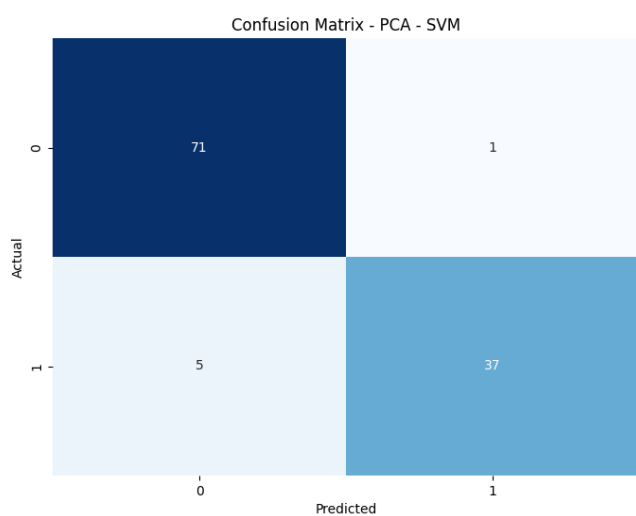
Model: SVM

Accuracy: 0.9474

Classification Report:

  0: precision: 0.93, recall: 0.99, f1-score: 0.96, support: 72.00

  1: precision: 0.97, recall: 0.88, f1-score: 0.93, support: 42.00

  macro avg: precision: 0.95, recall: 0.93, f1-score: 0.94, support: 114.00

  weighted avg: precision: 0.95, recall: 0.95, f1-score: 0.95, support: 114.00

Confusion Matrix - PCA - SVM

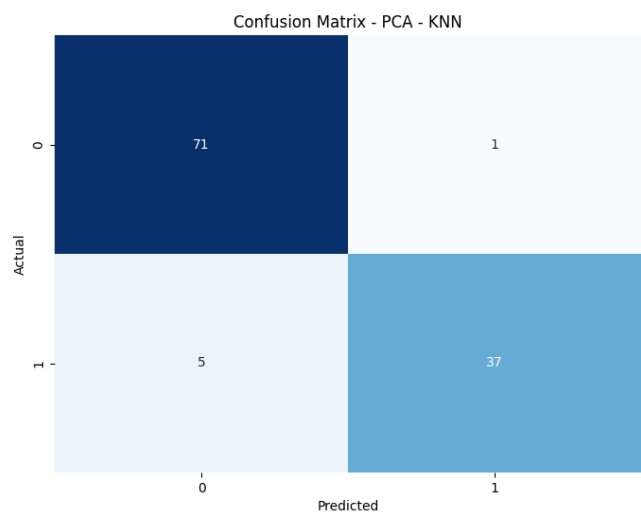**Model: KNN**

Accuracy: 0.9474

Classification Report:

 0: precision: 0.93, recall: 0.99, f1-score: 0.96, support: 72.00

 1: precision: 0.97, recall: 0.88, f1-score: 0.93, support: 42.00

 macro avg: precision: 0.95, recall: 0.93, f1-score: 0.94, support: 114.00

 weighted avg: precision: 0.95, recall: 0.95, f1-score: 0.95, support: 114.00

Confusion Matrix - PCA - KNN

	Predicted 0	Predicted 1
Actual 0	71	1
Actual 1	5	37

Model: Naive Bayes

Accuracy: 0.9035

Classification Report:

 0: precision: 0.90, recall: 0.96, f1-score: 0.93, support: 72.00

 1: precision: 0.92, recall: 0.81, f1-score: 0.86, support: 42.00

 macro avg: precision: 0.91, recall: 0.88, f1-score: 0.89, support: 114.00

 weighted avg: precision: 0.90, recall: 0.90, f1-score: 0.90, support: 114.00

Confusion Matrix - PCA - Naive Bayes