## **Model Performance Report**

Logistic Regr	ession: precision	recall	f1-score	support
False True	0.41 0.54	0.32 0.64	0.36 0.59	75 95
accuracy macro avg weighted avg	0.48 0.49	0.48 0.50	0.50 0.48 0.49	170 170 170
Random Forest	: precision	recall	f1-score	support
False True	0.43 0.55	0.37 0.61	0.40 0.58	75 95
accuracy macro avg weighted avg	0.49 0.50	0.49 0.51	0.51 0.49 0.50	170 170 170
SVC:	precision	recall	f1-score	support
False True	0.45 0.56	0.25 0.76	0.32 0.65	75 95
accuracy macro avg weighted avg	0.51 0.51	0.51 0.54	0.54 0.49 0.50	170 170 170

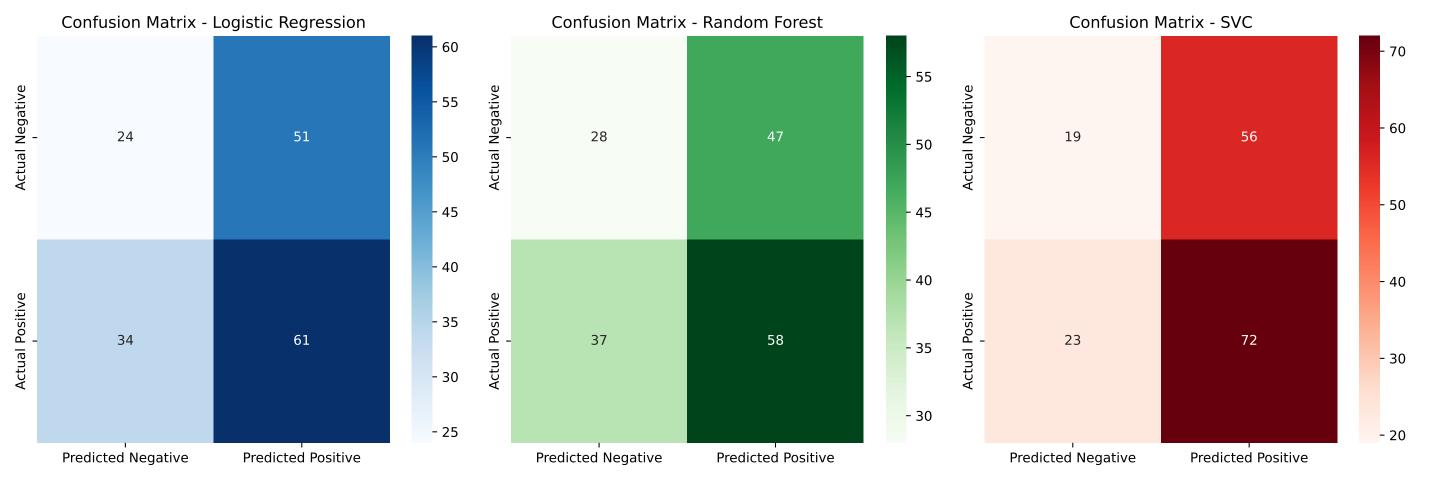
## **Best Hyperparameters for Each Model**

```
Logistic Regression Best Params:
    logisticregression__C: 1

Random Forest Best Params:
    randomforestclassifier__max_depth: 5
    randomforestclassifier__n_estimators: 5

SVC Best Params:
    calibratedclassifiercv__estimator__C: 0.1
    calibratedclassifiercv__estimator__kernel: rbf
```

	Training Accuracy	Validation Accuracy	Test Accuracy
Logistic Regression	0.5588145970113183	0.5334190506803814	0.5
Random Forest	0.9182494864462077	0.5045837351333976	0.5058823529411764
SVC	0.5597932358588096	0.5294867673845494	0.5352941176470588



Feature Importance - Logistic Regression

