

Model Performance Report

Classification Reports:

Logistic Regression:					
	precision	recall	f1-score	support	
False	0.46	0.44	0.45	75	
True	0.57	0.59	0.58	95	
accuracy			0.52	170	
macro avg	0.51	0.51	0.51	170	
weighted avg	0.52	0.52	0.52	170	

Random Forest:					
	precision	recall	f1-score	support	
False	0.45	0.47	0.46	75	
True	0.57	0.55	0.56	95	
accuracy			0.51	170	
macro avg	0.51	0.51	0.51	170	
weighted avg	0.51	0.51	0.51	170	

SVC:					
	precision	recall	f1-score	support	
False	0.46	0.52	0.49	75	
True	0.58	0.53	0.55	95	
accuracy			0.52	170	
macro avg	0.52	0.52	0.52	170	
weighted avg	0.53	0.52	0.53	170	

Model Accuracy Scores:

Logistic Regression - Training Accuracy: 0.5927, Validation Accuracy: 0.5387

Random Forest - Training Accuracy: 0.8616, Validation Accuracy: 0.5098

SVC - Training Accuracy: 0.6791, Validation Accuracy: 0.4934

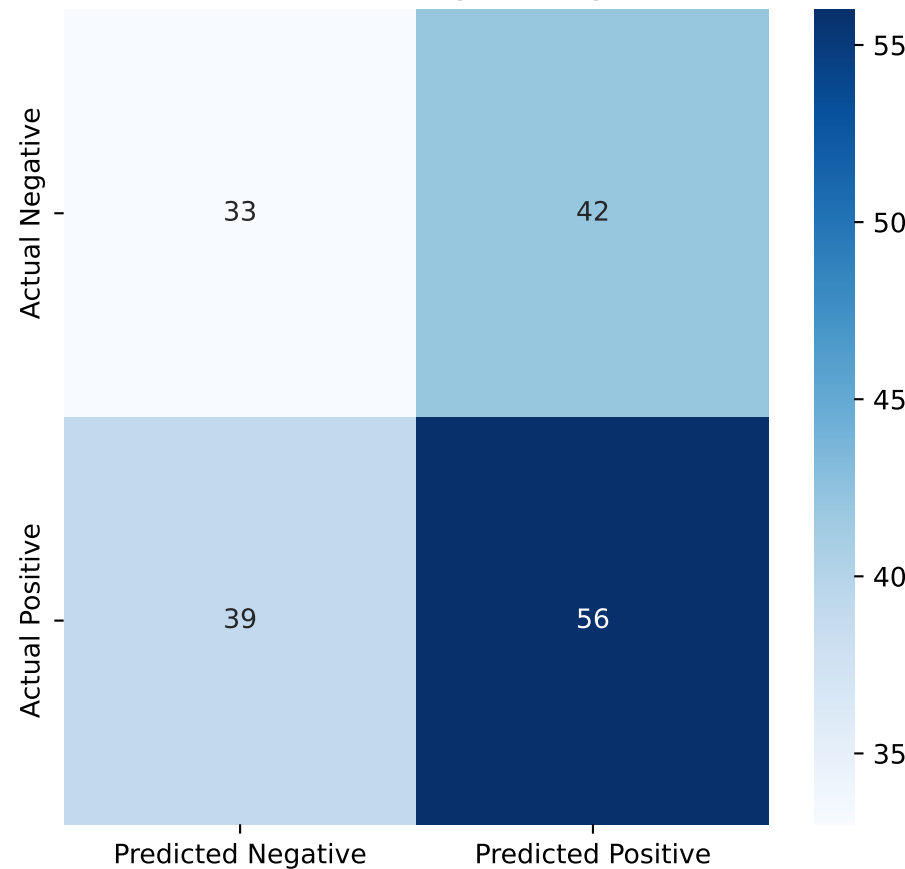
Best Parameters for Models

Logistic Regression: {'logisticregression__C': 100}

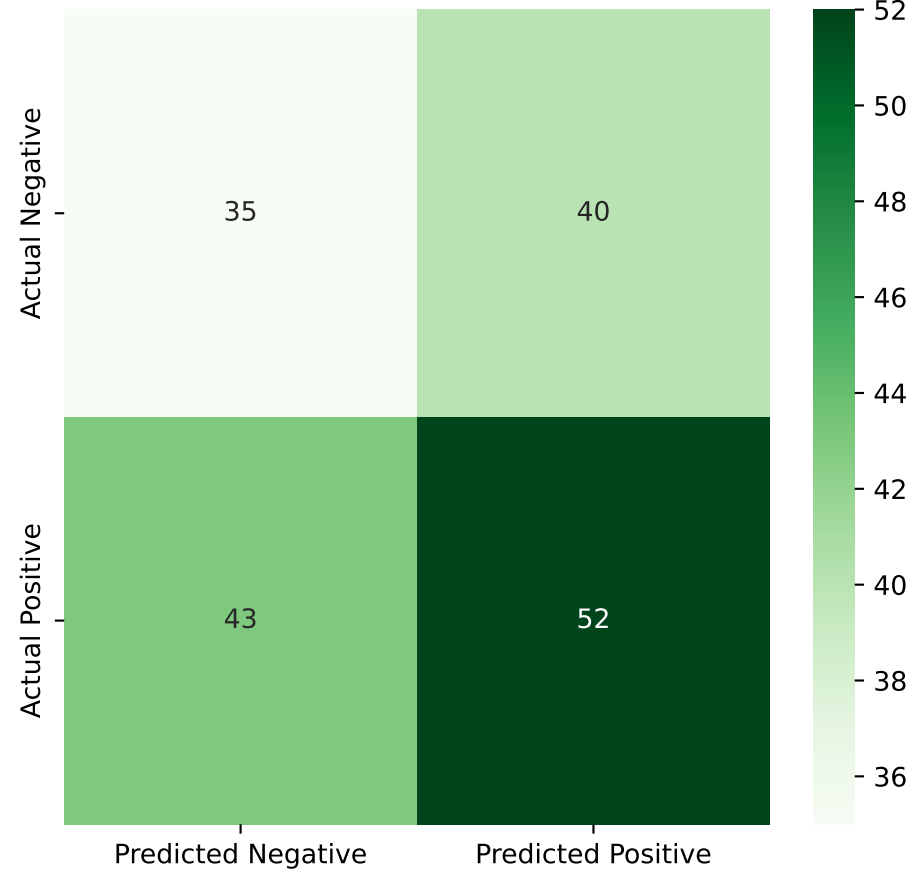
Random Forest: {'randomforestclassifier__max_depth': 10, 'randomforestclassifier__n_estimators': 10}

SVC: {'svc__C': 0.1}

Confusion Matrix - Logistic Regression



Confusion Matrix - Random Forest



Confusion Matrix - SVC

