## **Model Performance Report**

Logistic Regr	ession: precision	recall	f1-score	support
False True	0.41 0.54	0.29 0.66	0.34 0.60	75 95
accuracy macro avg weighted avg	0.48 0.48	0.48 0.50	0.50 0.47 0.48	170 170 170
Random Forest				
	precision	recall	f1-score	support
False True	0.40 0.53	0.36 0.57	0.38 0.55	75 95
accuracy macro avg weighted avg	0.46 0.47	0.46 0.48	0.48 0.46 0.47	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

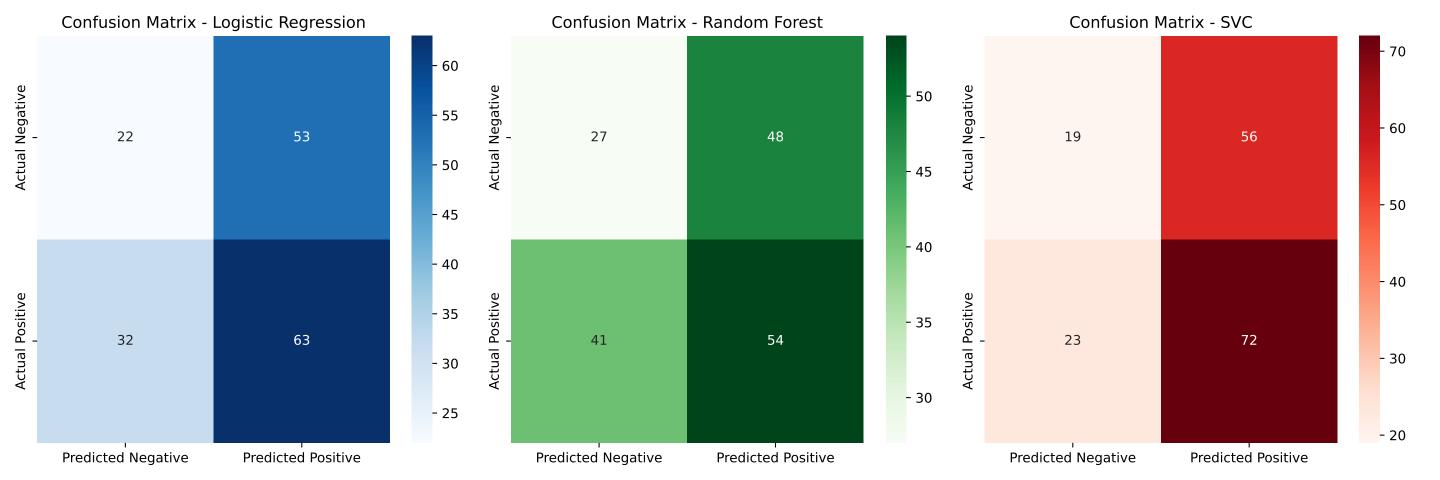
## **Best Hyperparameters for Each Model**

Logistic Regression Best Params:
 logisticregression\_\_C: 0.01

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	0.560125132584149	0.5340747883852994	0.5
Random Forest	0.7778503242437669	0.5072066859530697	0.4764705882352941
SVC	0.5601205676615513	0.5294867673845494	0.5352941176470588



Feature Importance - Logistic Regression 0.10 0.08 0.06 0.04 0.02 0.00 L\_home -SOW\_home OL\_home -PTS%\_home -AvAge\_home -Rk\_home -PTS\_home -GA\_home -

