

Model Comparison

Evaluation of models before and after optimization.

		Evaluation Metrics			Performance Metrics				
		Train f1_score	Test f1_score	Overfitting	ROC Area	Precision	Recall	Support	Hyperparameters
XGBoost									
XGBoost with default params	0.884	0.604	True	0.647	0.556	0.660	4690.0	default XGB	
XGBoost after 50 trials	0.777	0.645	True	0.672	0.571	0.742	4690.0	learning_rate: 0.034, max_depth: 7, min_child_weight: 0.546, subsample: 0.982, colsample_bytree: 0.936	
SVM									
SVM with default parameters	0.669	0.652	True	0.691	0.589	0.730	4690.0	default SVM	
SVM after 50 trials	0.645	0.644	True	0.673	0.577	0.727	4690.0	C: 6.208, gamma: auto, kernel: rbf	
Before and after Bayesian Optimization - 50 trials									