Table 1: Performance Metrics of Tuned Models

Model	Best Parameters	Balanced Accuracy	F1 Score	ROC AUC	μ_t (s)
Tuned Logistic Regression	'C': 0.1,				
'penalty': 'l2',					
'solver': 'lbfgs'	0.838	0.867	0.838	0.039	
Tuned Random Forest	$'$ max_depth': 10,				
'max_features': 'sqrt',					
'n_estimators': 200	0.896	0.945	0.896	1.318	
Tuned XGBoost	'learning_rate': 0.1,				
'max_depth': 6,					
'n_estimators': 200	0.946	0.969	0.946	0.439	
Tuned ANN	'units1': 64,				
'act1': 'relu',					
'units2': 48,					
'act2': 'relu',					
'lr': 0.001	0.869	0.94	0.869	0.315	