Advanced Model Performance Metrics

PRECISION

Model	Value
Balanced_RF	0.086
Balanced_Bagging	0.120
Cost_Sensitive_LR	0.081
XGBoost_Balanced	0.084
LightGBM_Balanced	0.117
Cost_Sensitive_RF	0.092

RECALL

Model	Value
Balanced_RF	0.173
Balanced_Bagging	0.209
Cost_Sensitive_LR	0.482
XGBoost_Balanced	0.300
LightGBM_Balanced	0.136
Cost_Sensitive_RF	0.200

F1 SCORE

Model	Value
Balanced_RF	0.115
Balanced_Bagging	0.152
Cost_Sensitive_LR	0.138
XGBoost_Balanced	0.131
LightGBM_Balanced	0.126
Cost_Sensitive_RF	0.126

ROC AUC

Model	Value
Balanced_RF	0.582
Balanced_Bagging	0.614
Cost_Sensitive_LR	0.562
XGBoost_Balanced	0.580
LightGBM_Balanced	0.623
Cost_Sensitive_RF	0.589

PR AUC

Model	Value
Balanced_RF	0.091
Balanced_Bagging	0.106
Cost_Sensitive_LR	0.075
XGBoost_Balanced	0.098
LightGBM_Balanced	0.097
Cost_Sensitive_RF	0.091

MCC

Model	Value
Balanced_RF	0.033
Balanced_Bagging	0.079
Cost_Sensitive_LR	0.050
XGBoost_Balanced	0.042
LightGBM_Balanced	0.060
Cost_Sensitive_RF	0.044