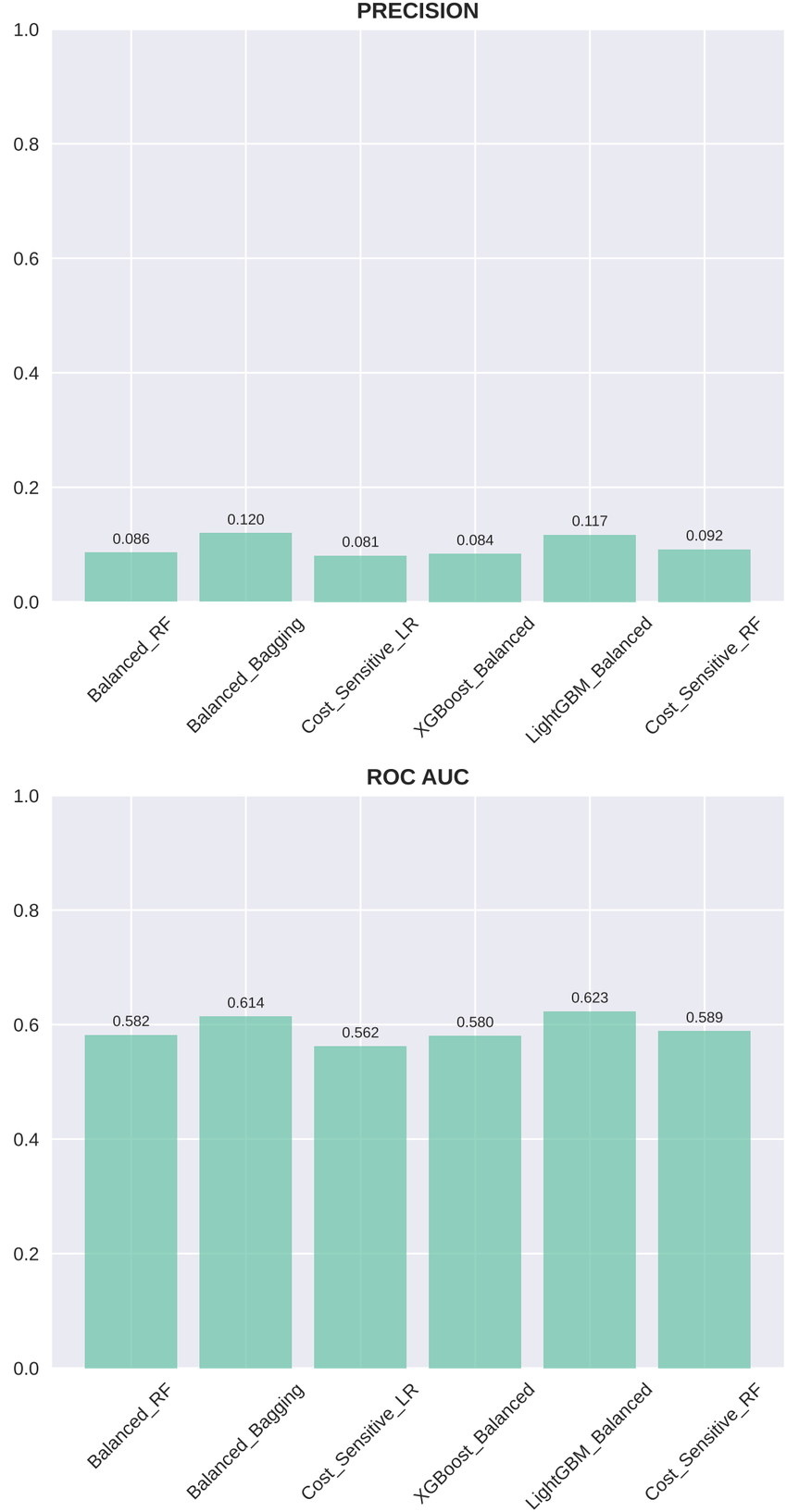
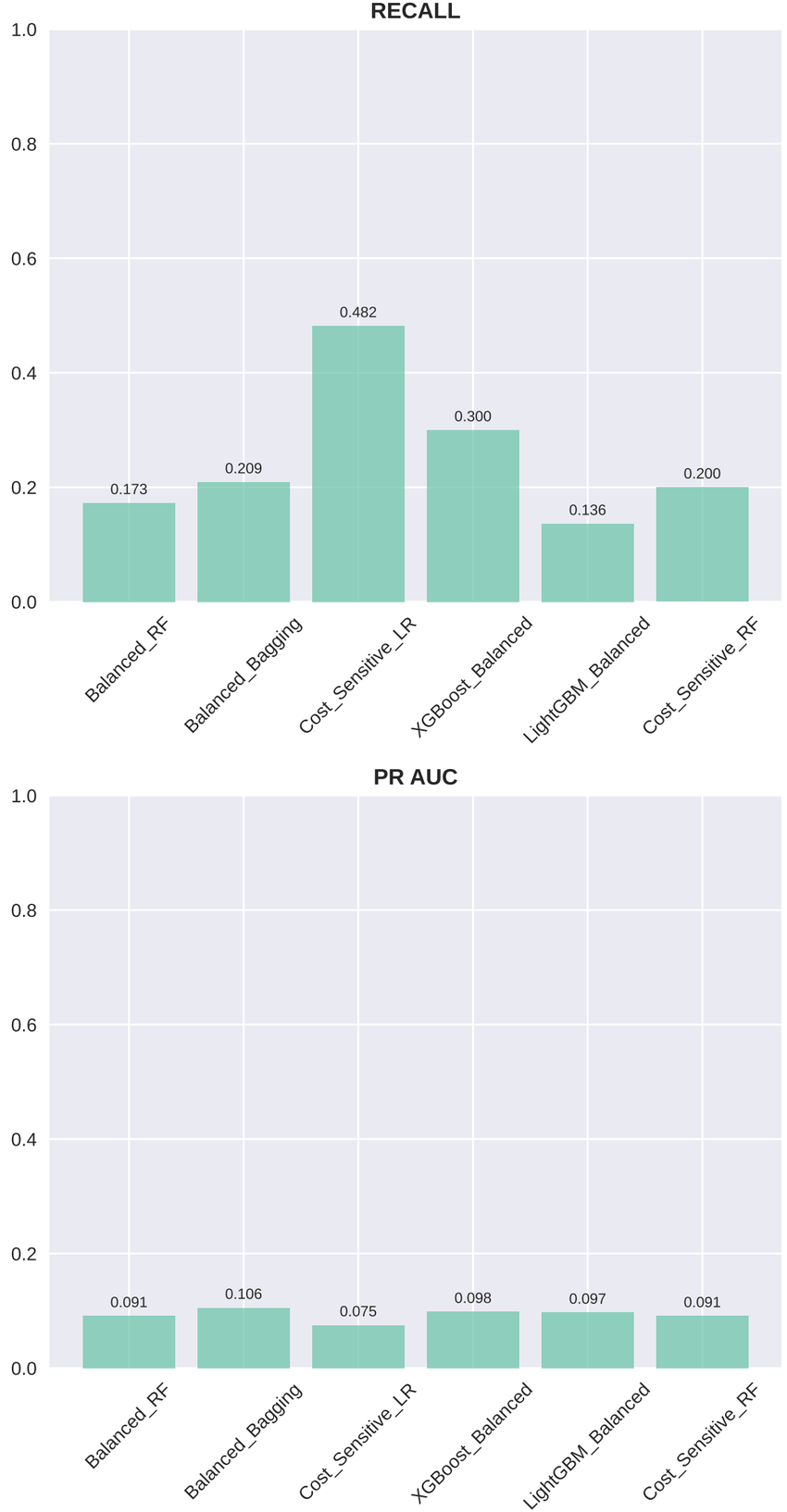
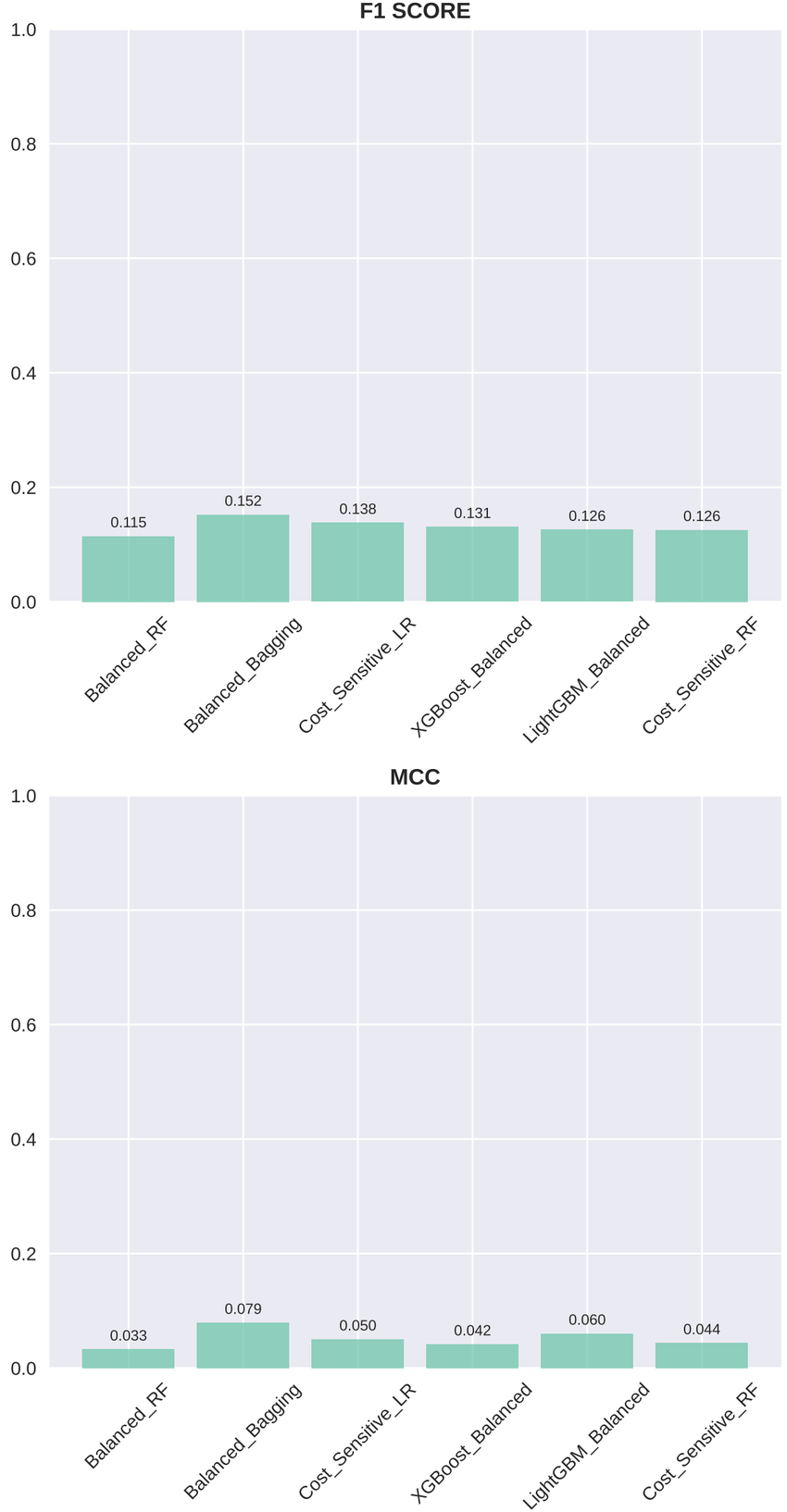
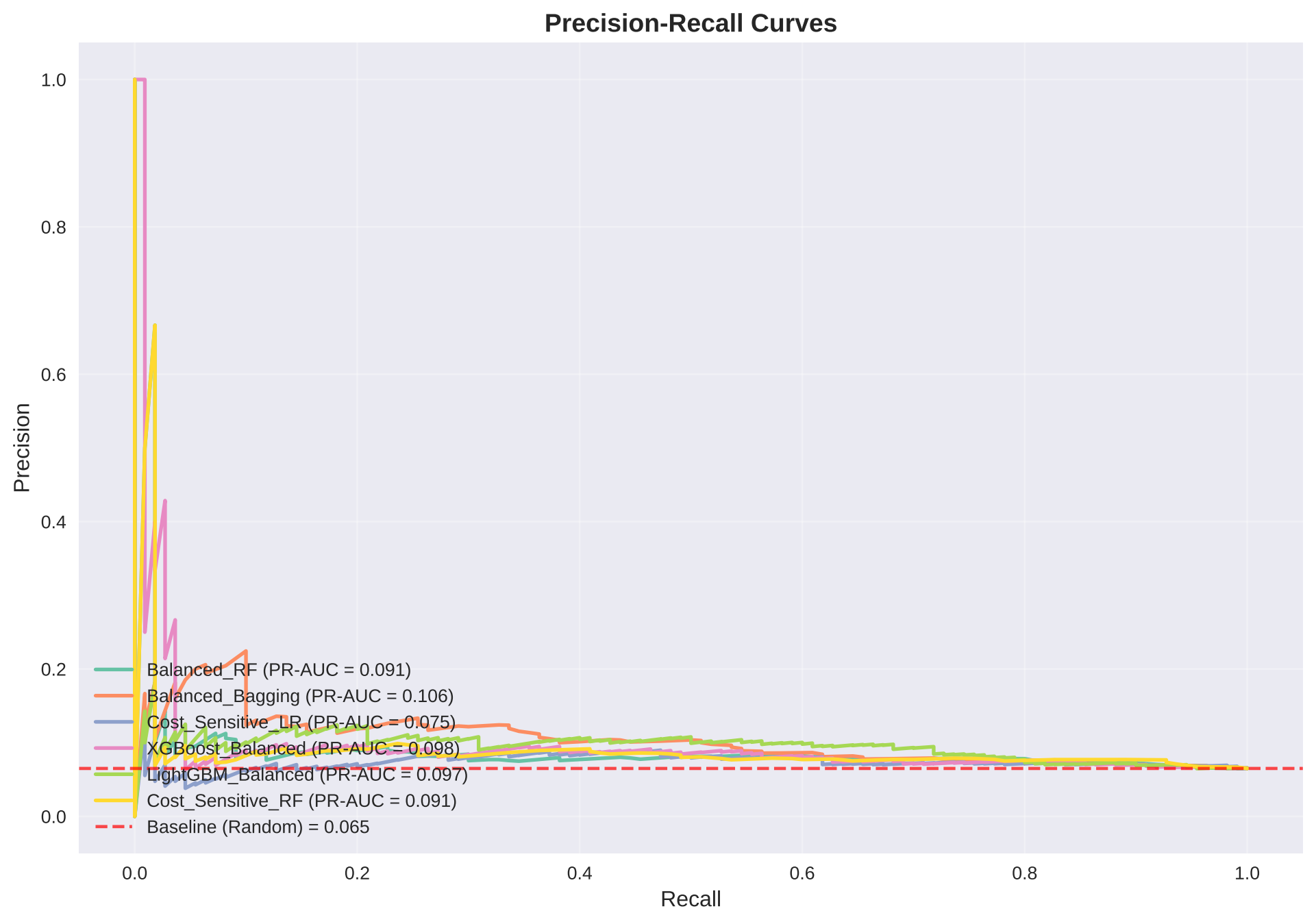
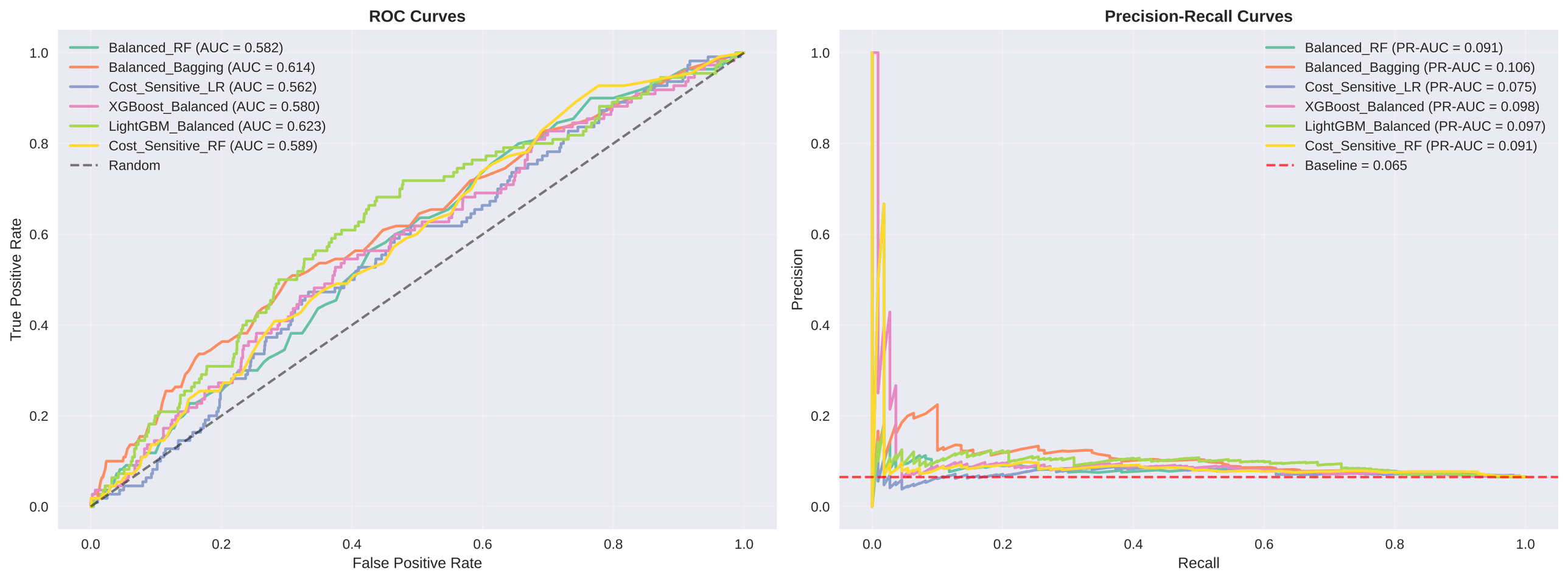
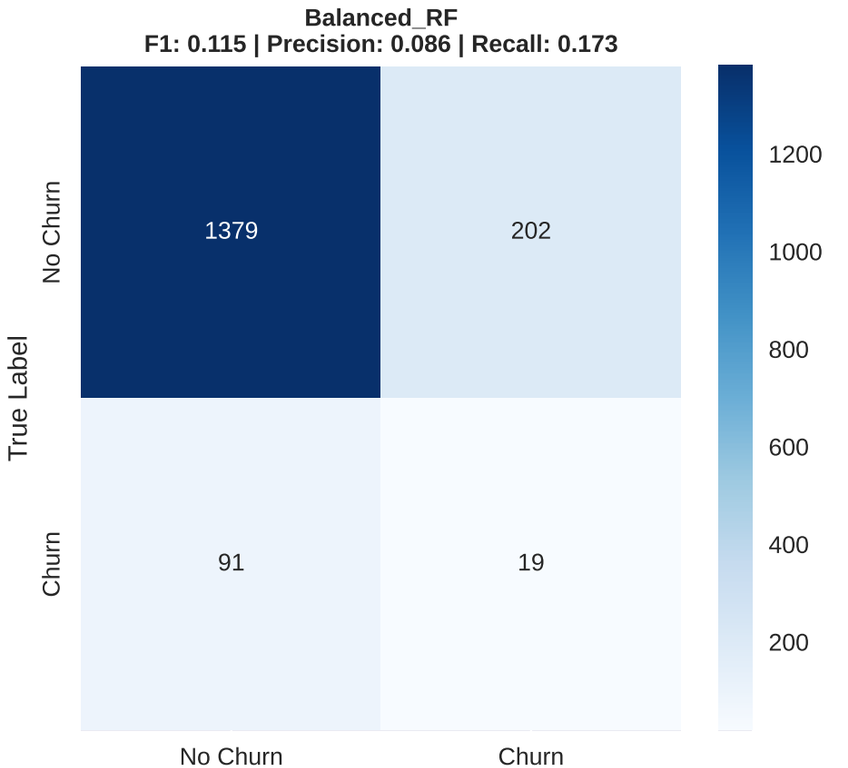
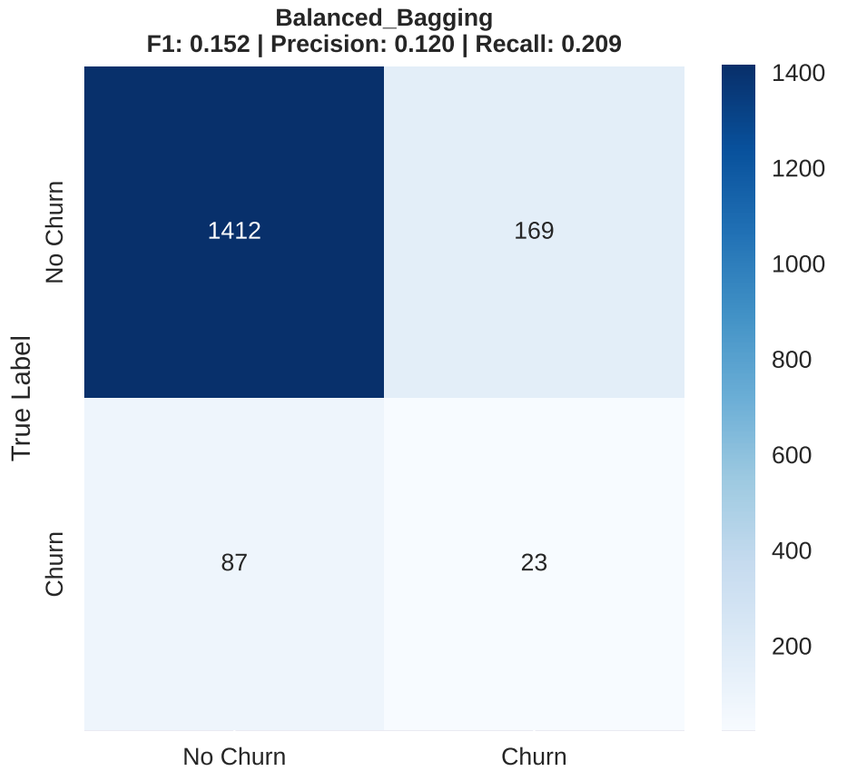
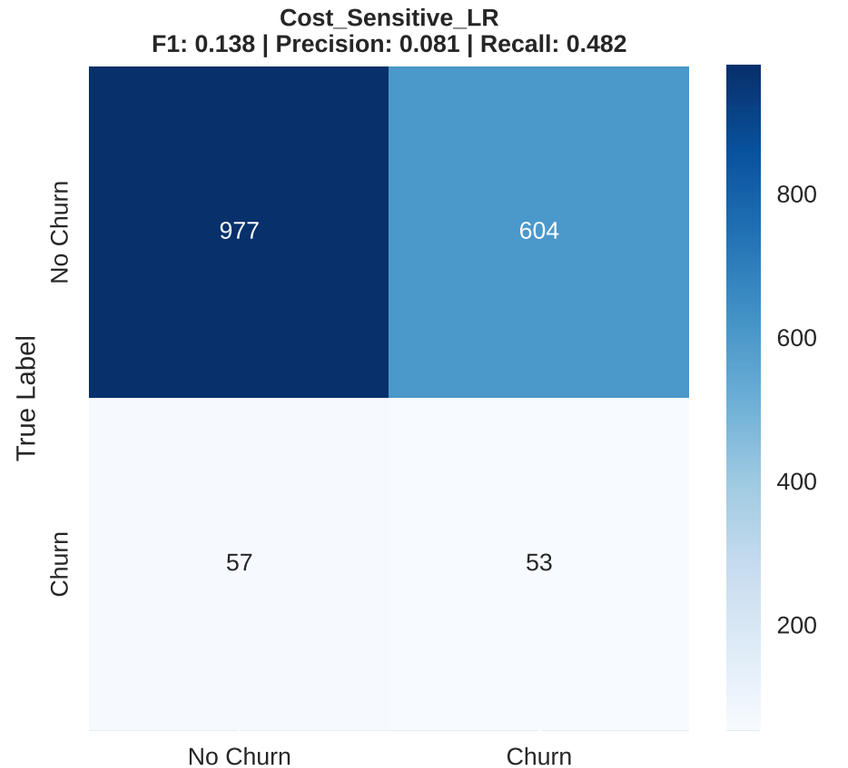
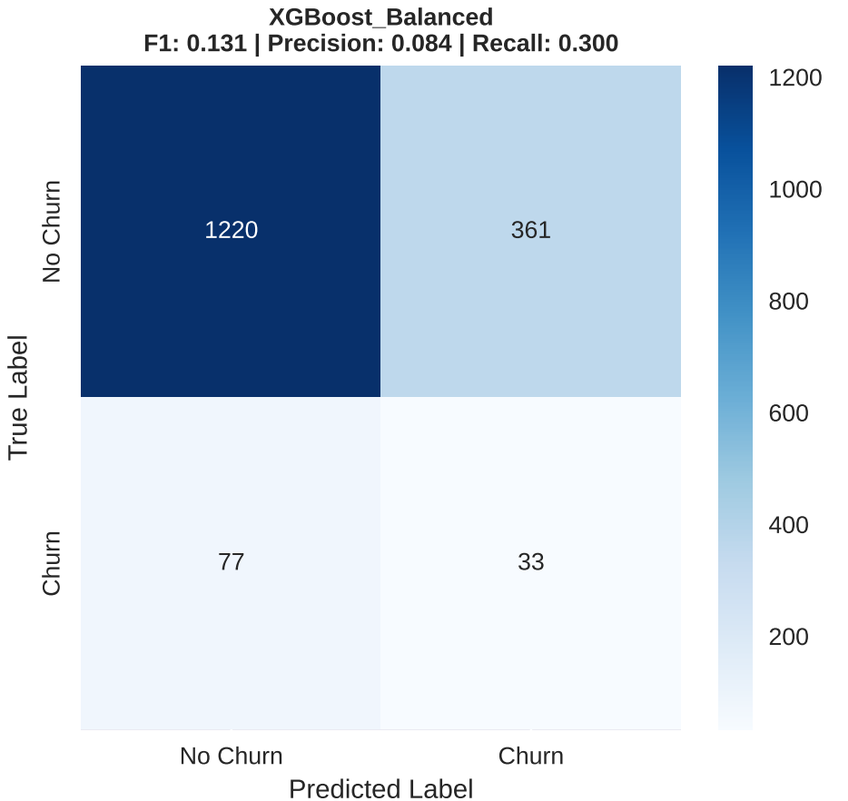
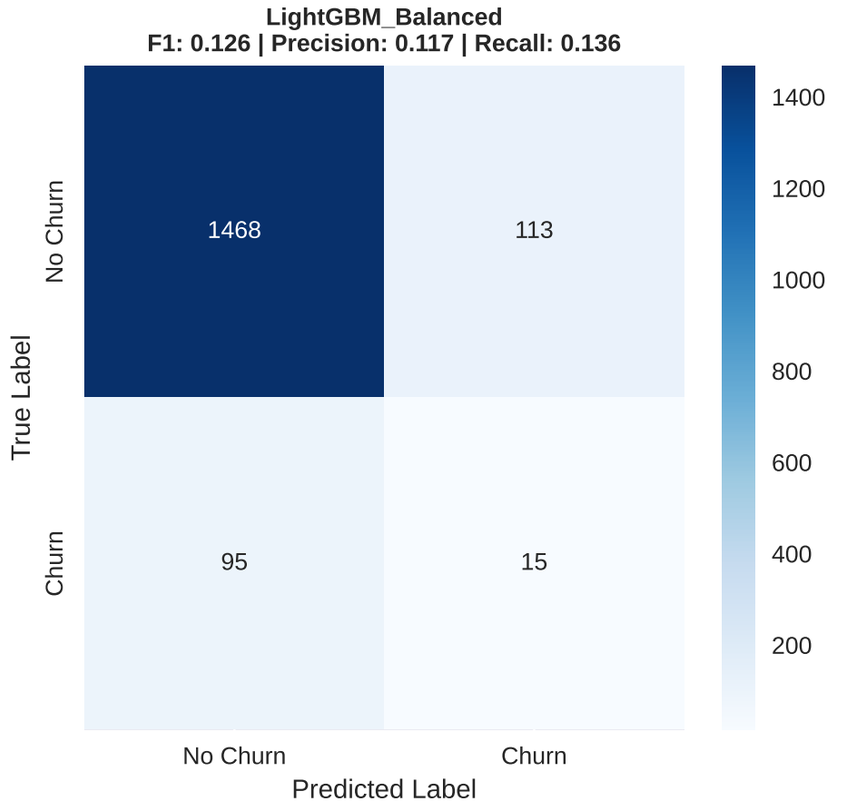
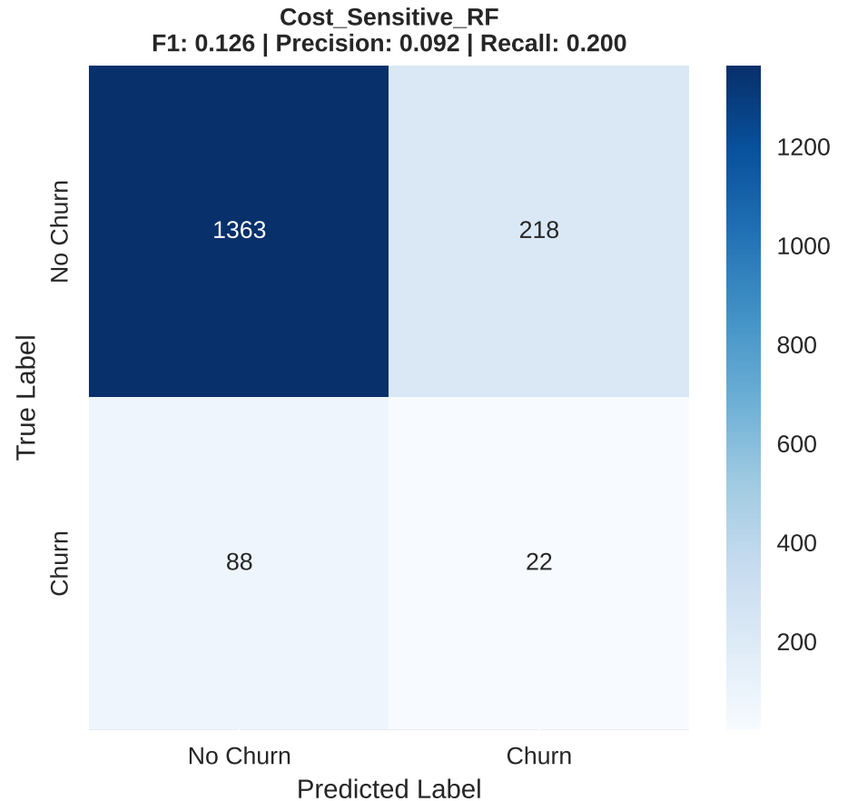
Advanced Model Performance Metrics








Precision-Recall Curves
Precision
Recall
1.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.4
0.6
0.8
1.0
Balanced_RF (PR-AUC = 0.091)
Balanced_Bagging (PR-AUC = 0.106)
Cost_Sensitive_LR (PR-AUC = 0.075)
XGBoost_Balanced (PR-AUC = 0.098)
LightGBM_Balanced (PR-AUC = 0.097)
Cost_Sensitive_RF (PR-AUC = 0.091)
Baseline (Random) = 0.065


ROC Curves
Balanced_RF (AUC = 0.582)
Balanced_Bagging (AUC = 0.614)
Cost_Sensitive_LR (AUC = 0.562)
XGBoost_Balanced (AUC = 0.580)
LightGBM_Balanced (AUC = 0.623)
Cost_Sensitive_RF (AUC = 0.589)
Random
True Positive Rate
False Positive Rate
0.0
0.2
0.4
0.6
0.8
1.0
Precision-Recall Curves
Balanced_RF (PR-AUC = 0.091)
Balanced_Bagging (PR-AUC = 0.106)
Cost_Sensitive_LR (PR-AUC = 0.075)
XGBoost_Balanced (PR-AUC = 0.098)
LightGBM_Balanced (PR-AUC = 0.097)
Cost_Sensitive_RF (PR-AUC = 0.091)
Baseline = 0.065
Precision
Recall

Confusion Matrices with Performance Metrics