Final Model Performance Summary

Model	auc_score	brier_score	f1_score	conformal_coverage	avg_set_size
XGBoost	0.3667	0.5604	0.4384	nan	nan
XGBoost (With MAPIE)	0.3667	0.5604	0.4384	0.905	1.85
Random Forest	0.3581	0.4125	0.4253	nan	nan
Random Forest (With MAPIE)	0.3581	0.4125	0.4253	0.92	1.855
Logistic Regression	0.3134	0.5189	0.4893	nan	nan
Logistic Regression (With MAPIE)	0.3134	0.5189	0.4893	0.905	1.895

Before vs. After MAPIE Comparison: Logistic Regression
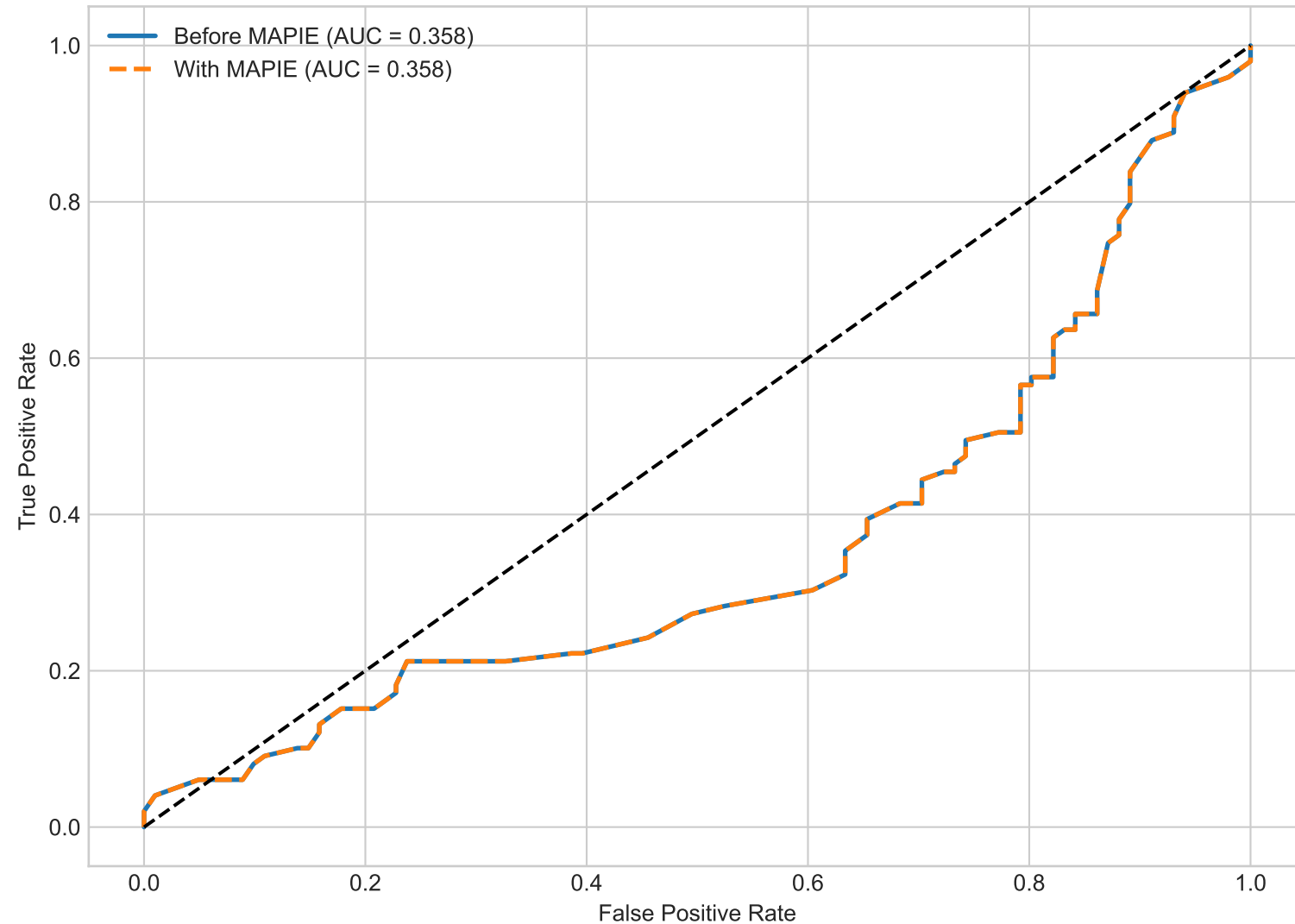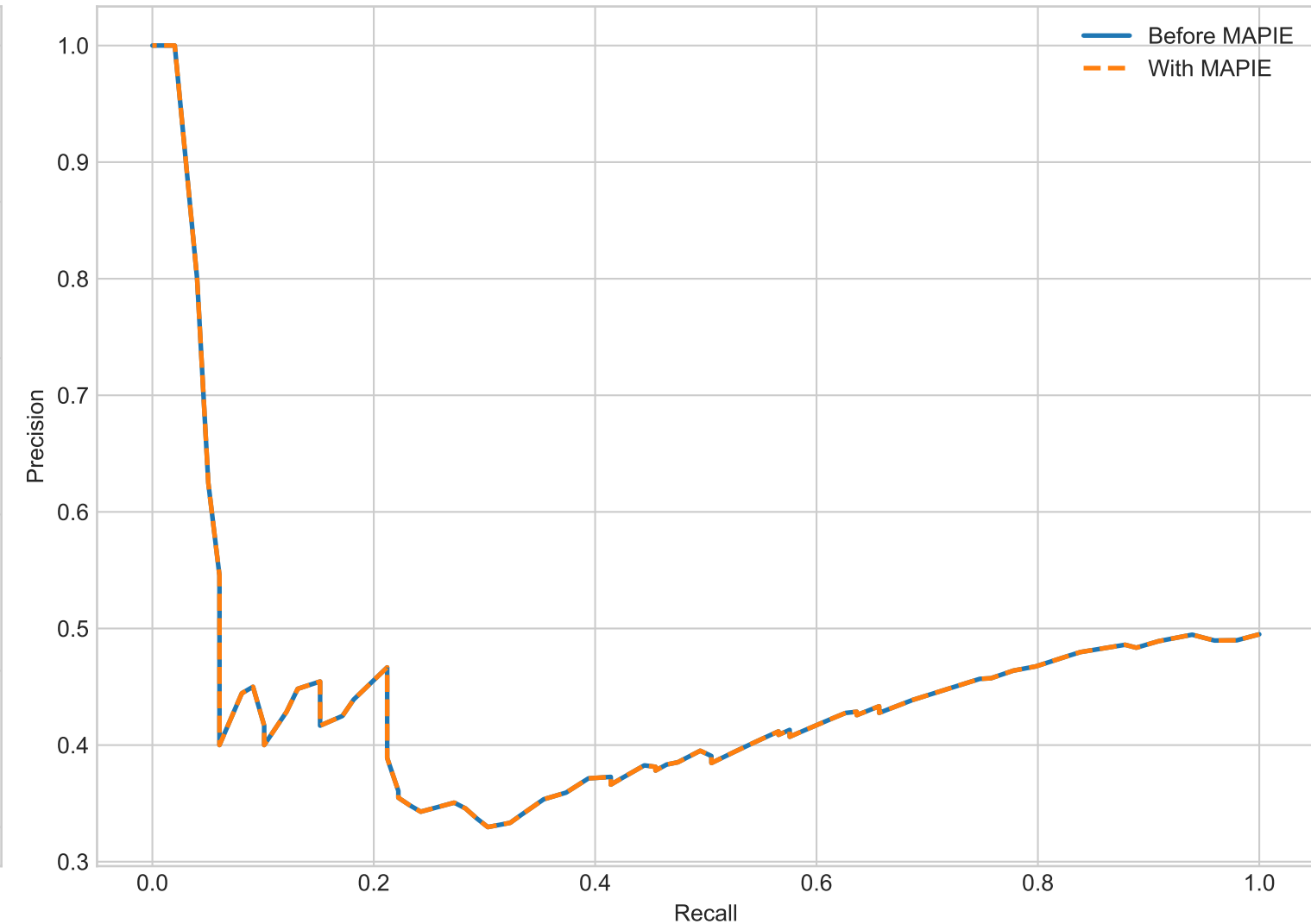

ROC Curve

Before MAPIE (AUC = 0.313)
With MAPIE (AUC = 0.313)

Precision-Recall Curve
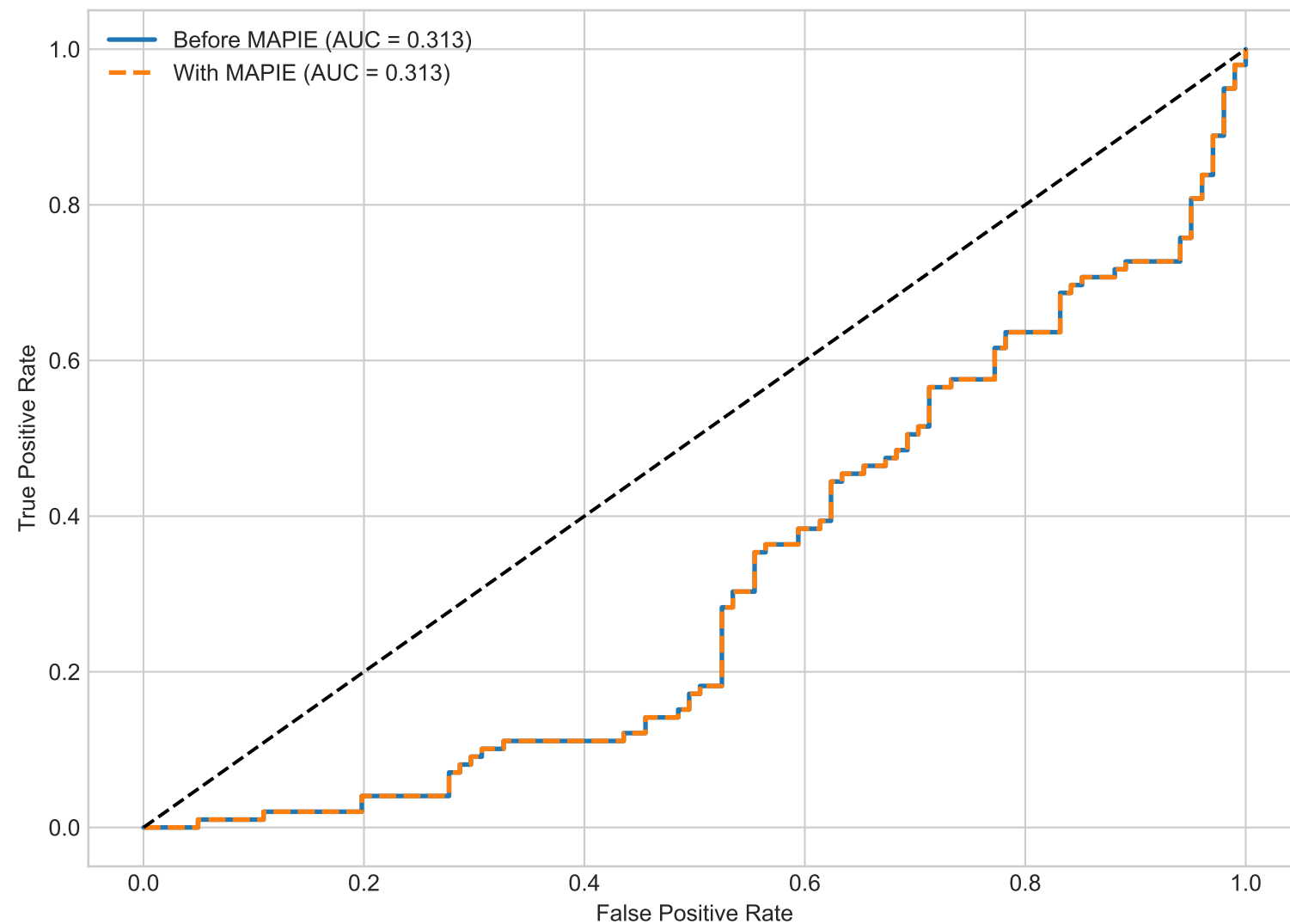
Before MAPIE
With MAPIE
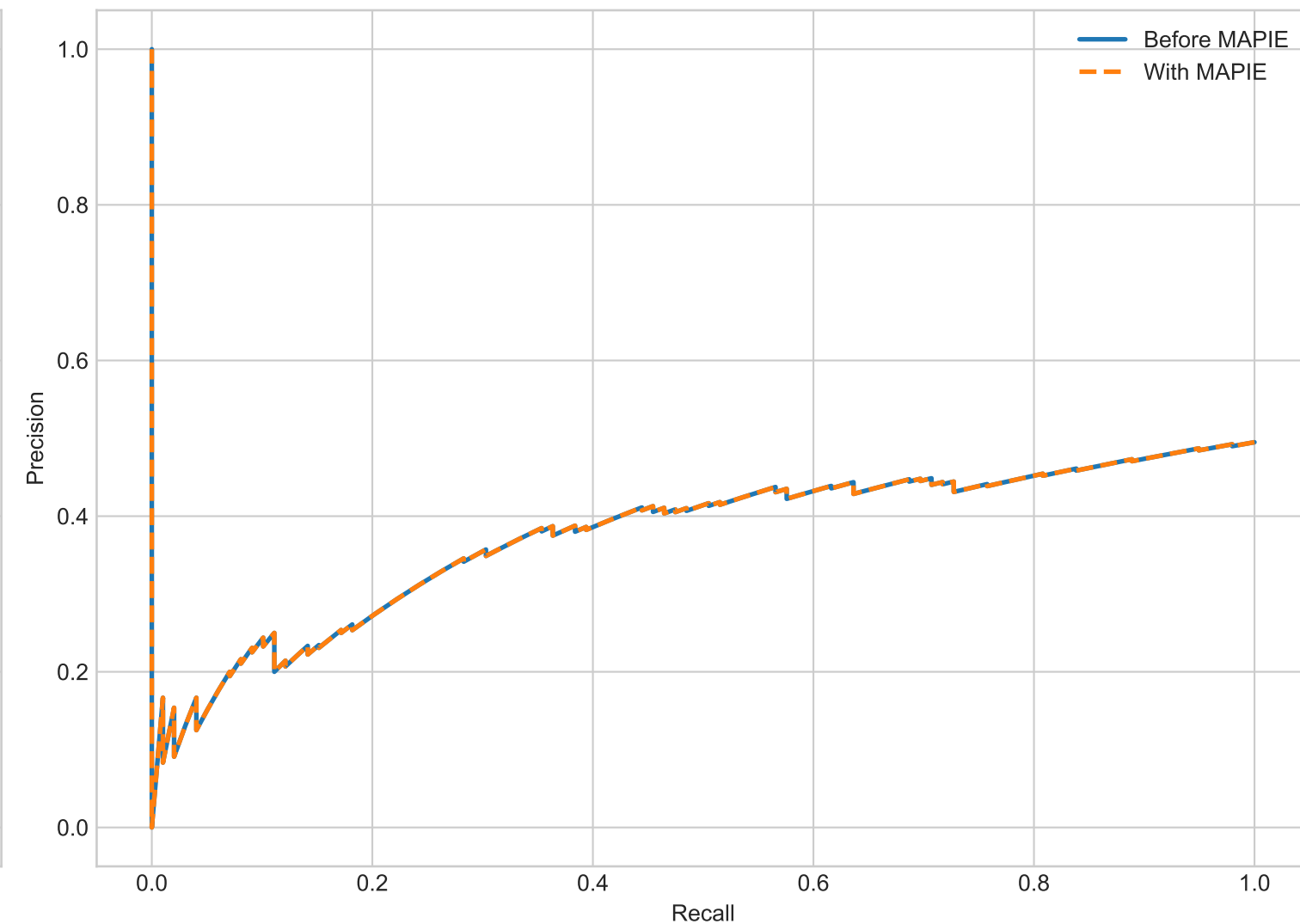
Before vs. After MAPIE Comparison: Random Forest

ROC Curve

- Before MAPIE (AUC = 0.358)
- With MAPIE (AUC = 0.358)

Precision-Recall Curve

- Before MAPIE
- With MAPIE

Before vs. After MAPIE Comparison: XGBoost