Performance Metrics vs Classification Threshold XGBoost Model with MICE Imputation 1.0 Sensitivity -- NPV Optimal (0.395) Specificity ••• F1 Score - PPV 0.8 Metric Value 0.4 0.2 Optimal Threshold: 0.395 Sensitivity: 0.781 Specificity: 0.566 PPV: 0.413 NPV: 0.869 F1 Score: 0.540 0.2 0.8 1.0 **Classification Threshold**