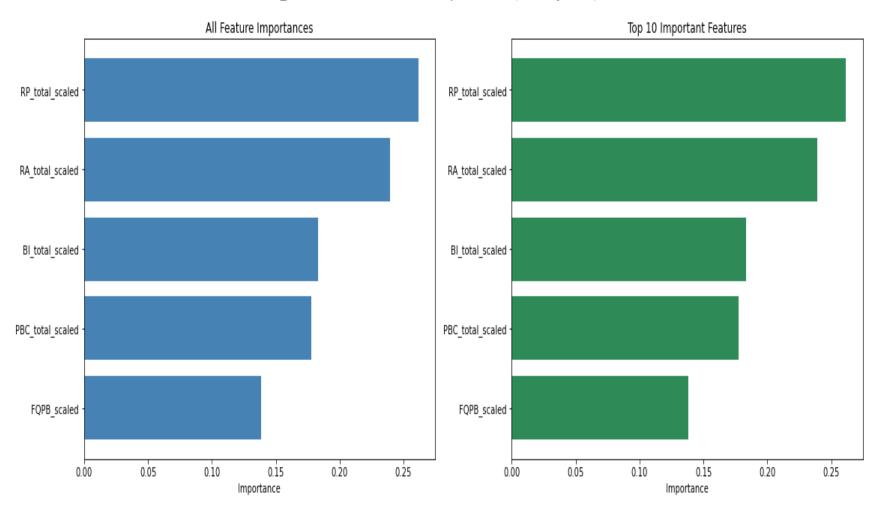
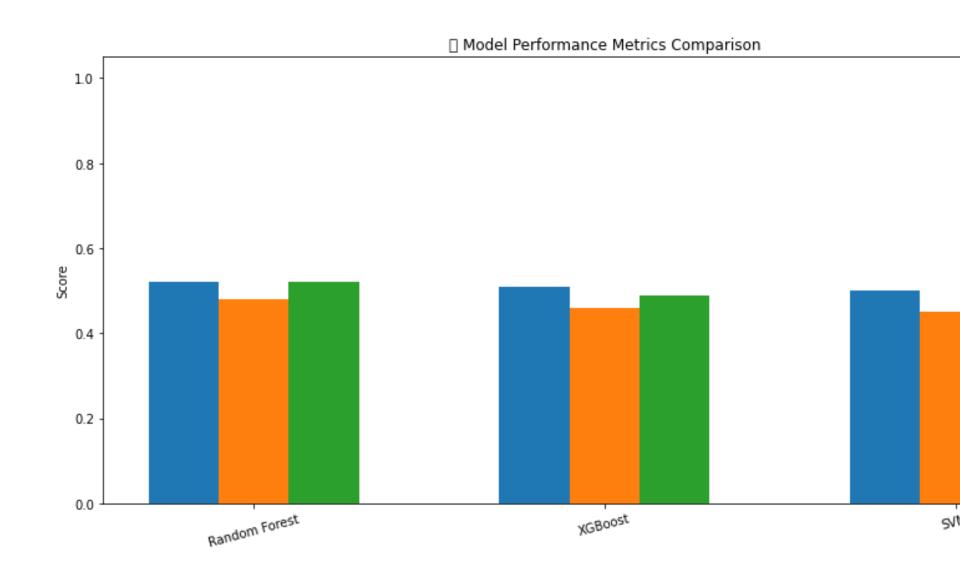
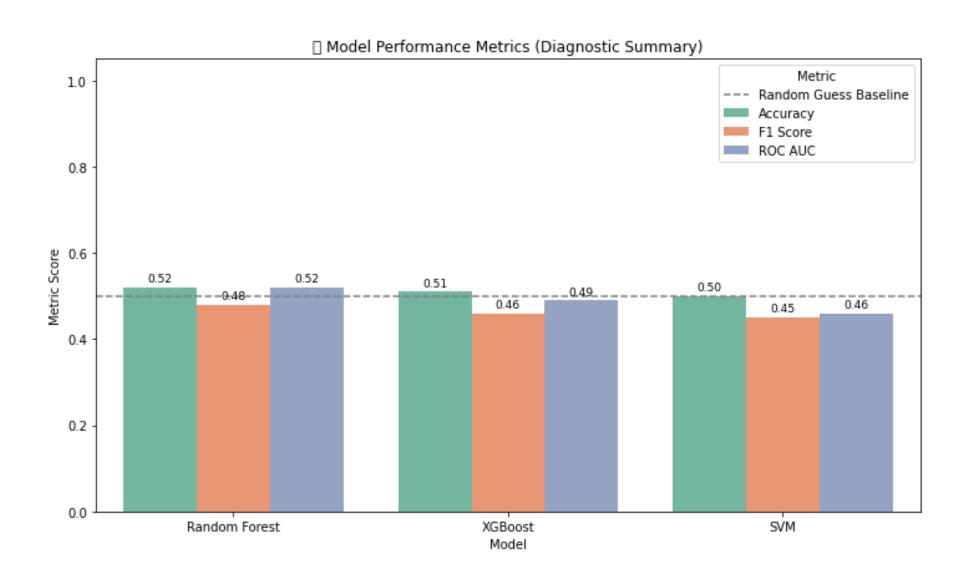
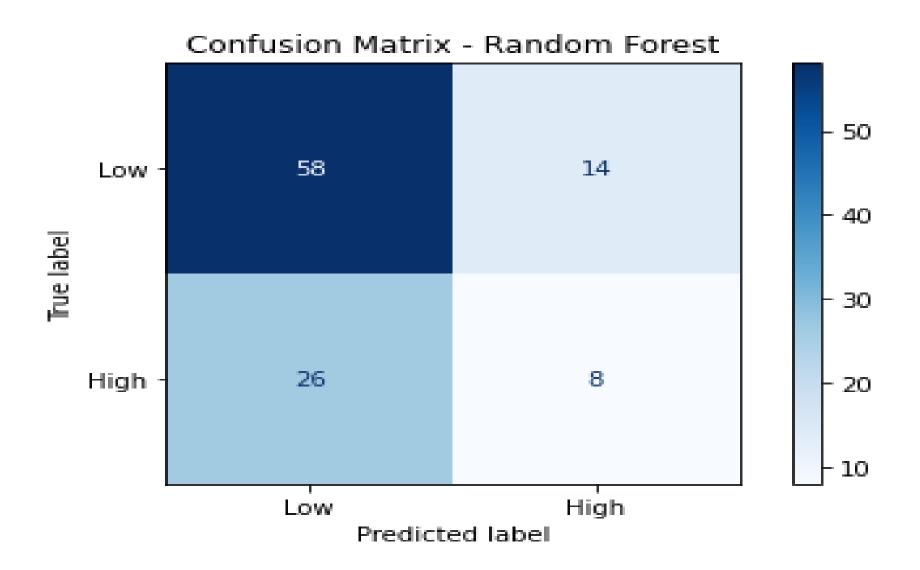


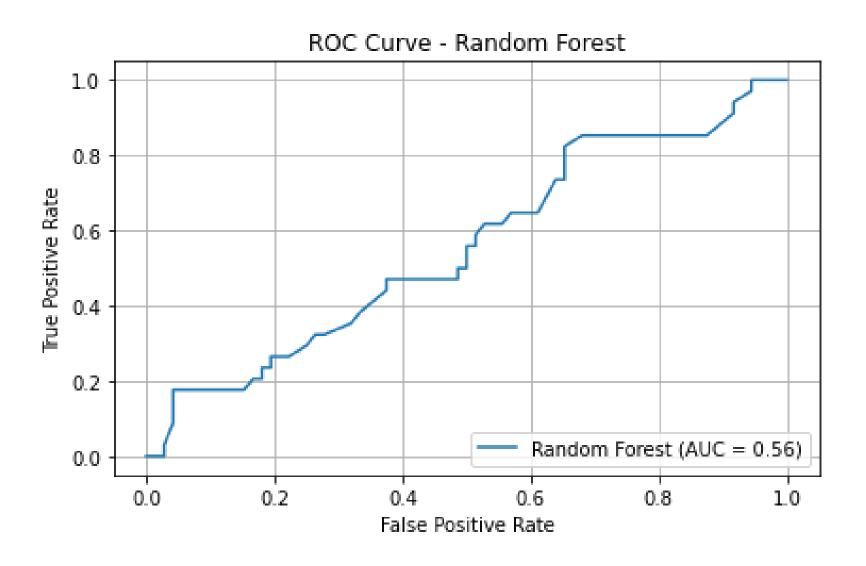
☐ Random Forest Feature Importances (Side by Side)



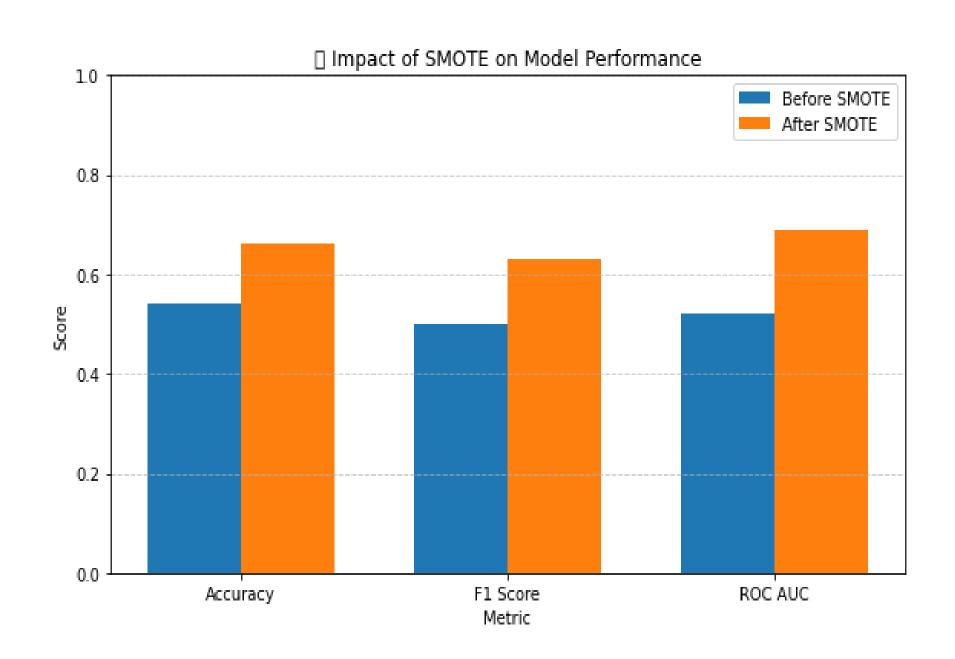




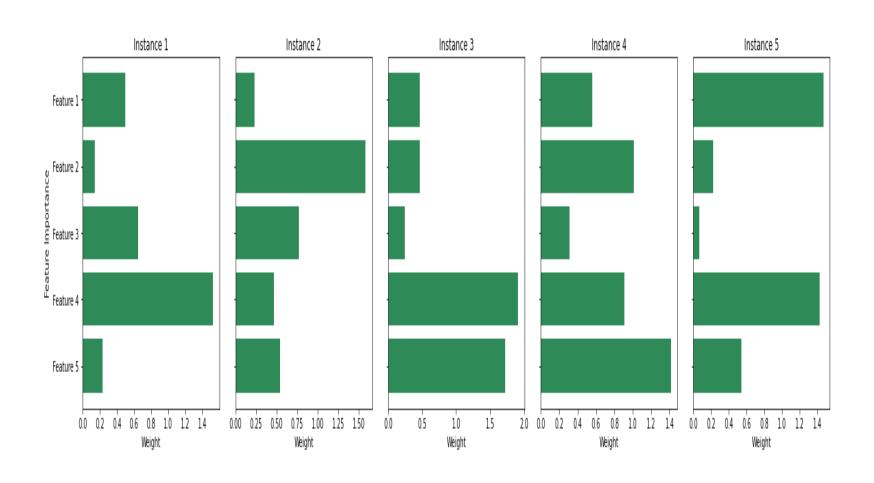


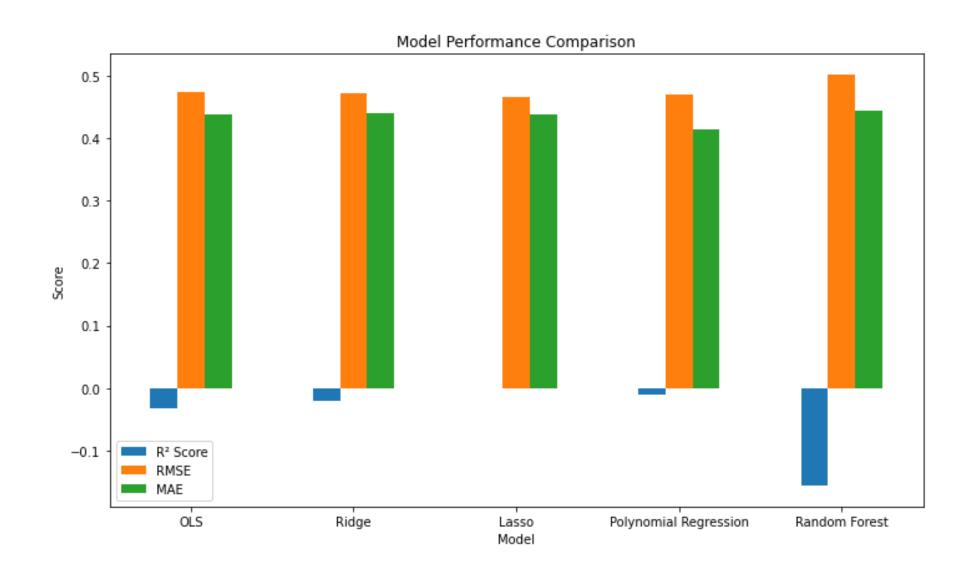


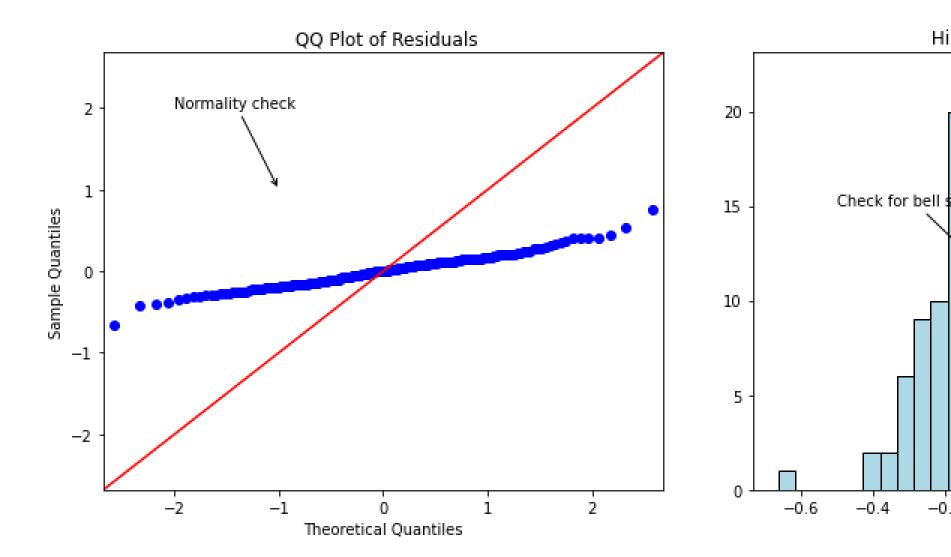
Top 10 Important Features - Random Forest RA_total_scaled -RP_total_scaled -PBC_total_scaled Bl_total_scaled -FQPB_scaled 0.20 0.05 0.25 0.10 0.00 0.15 Importance Score

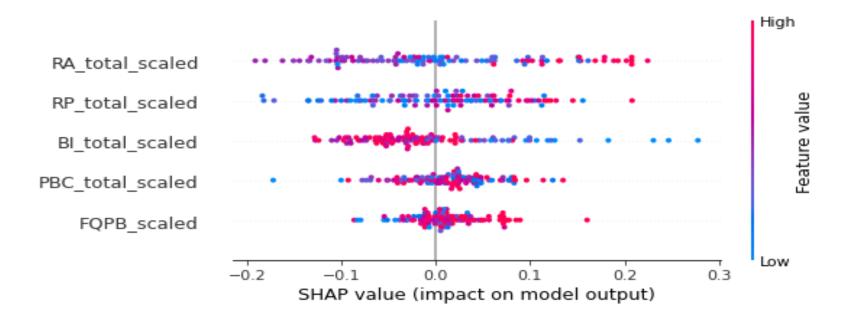


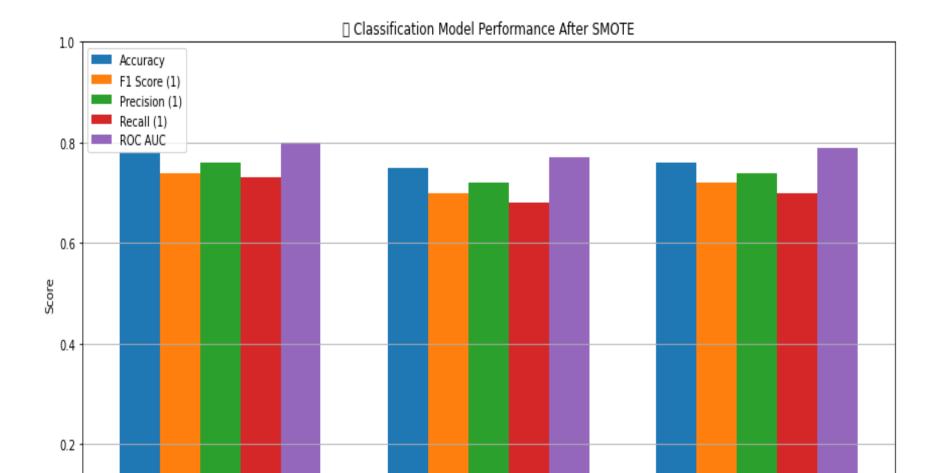
☐ LIME Explanations for 5 Random Instances









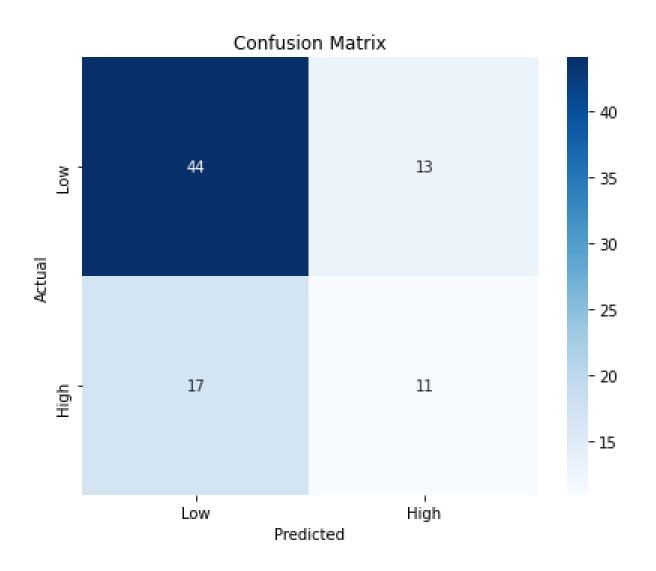


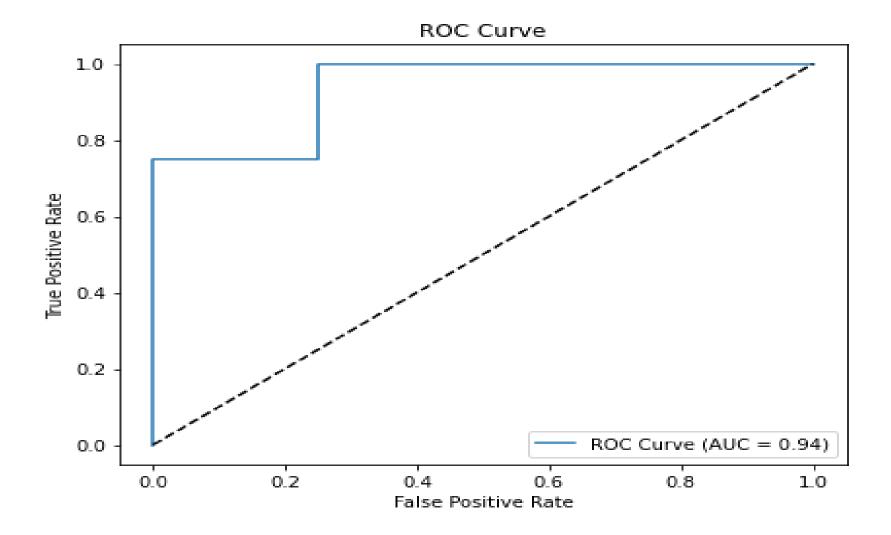
Logistic Regression

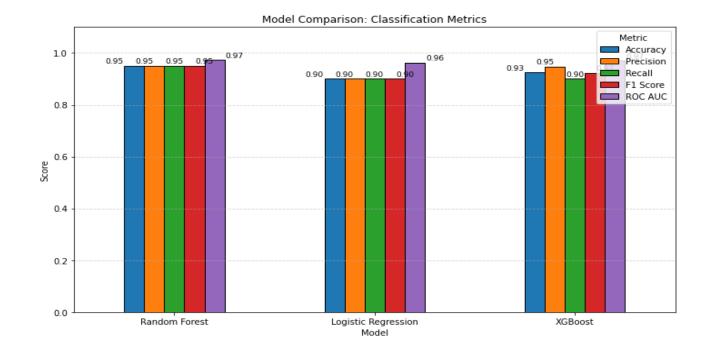
XGBoost (GB)

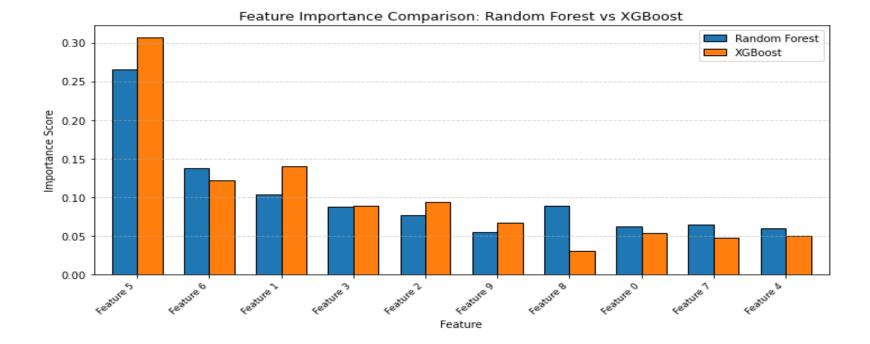
0.0

Random Forest

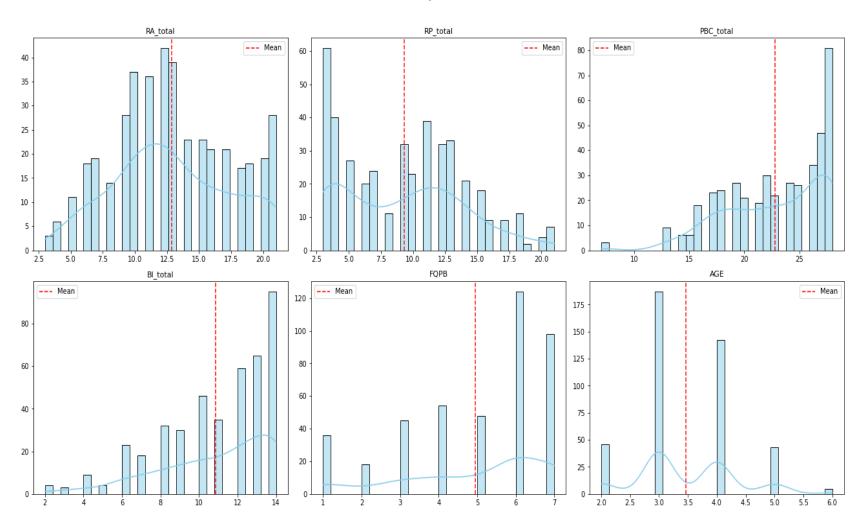








Distribution of Key Numeric Features



Correlation Heatmap of Numeric Features

- 0.8

-06

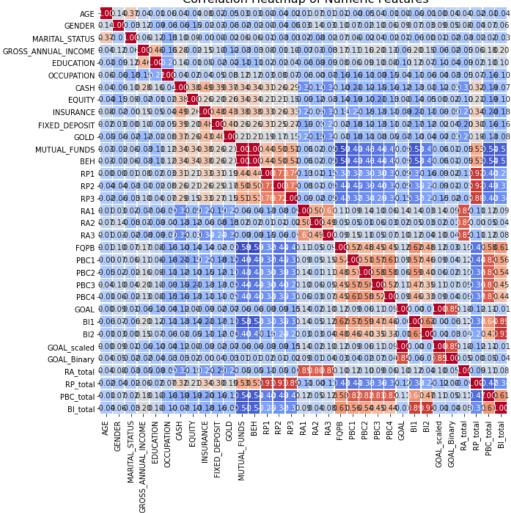
- 0.4

-0.2

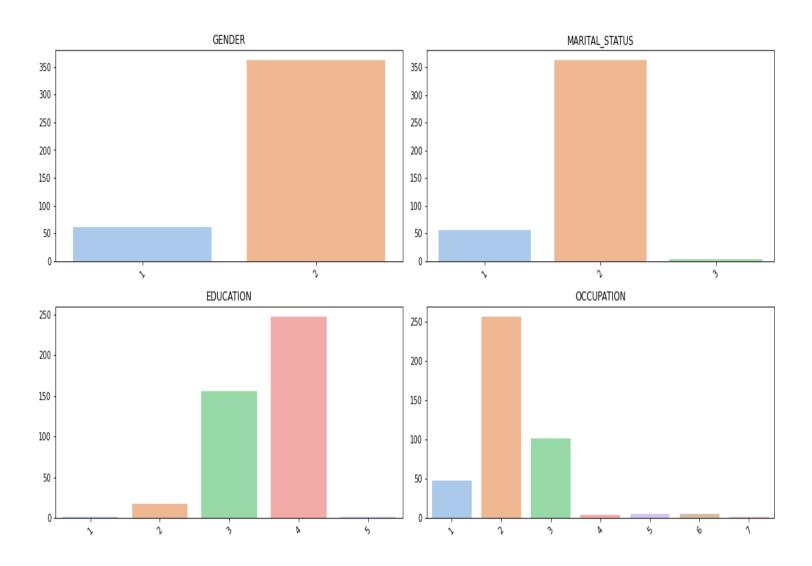
-00

- -0.2

- -0.4



Count Plots of Categorical Features





Correlation Heatmap

1.0

- 0.8

- 0.6

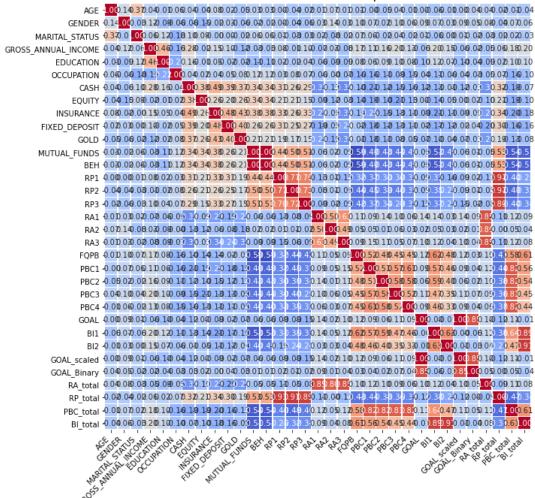
- 0.4

- 0.2

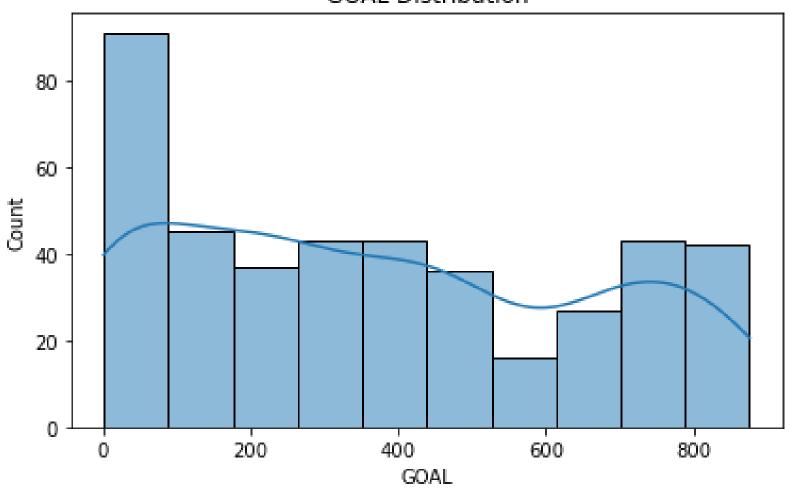
- 0.0

- -0 2

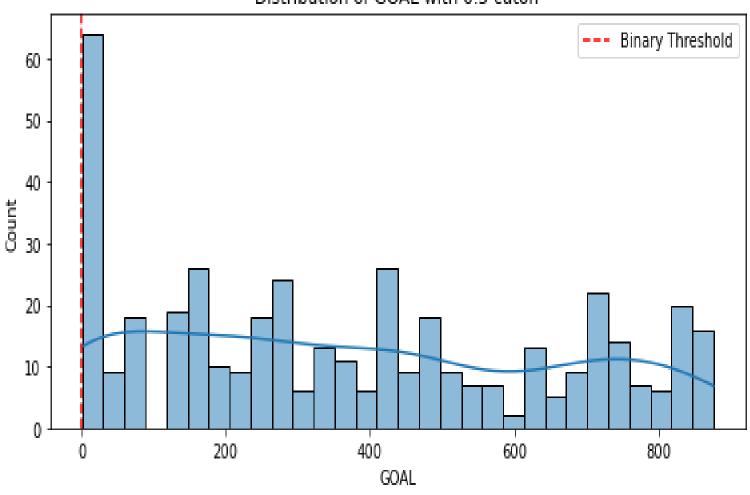
- -0.4

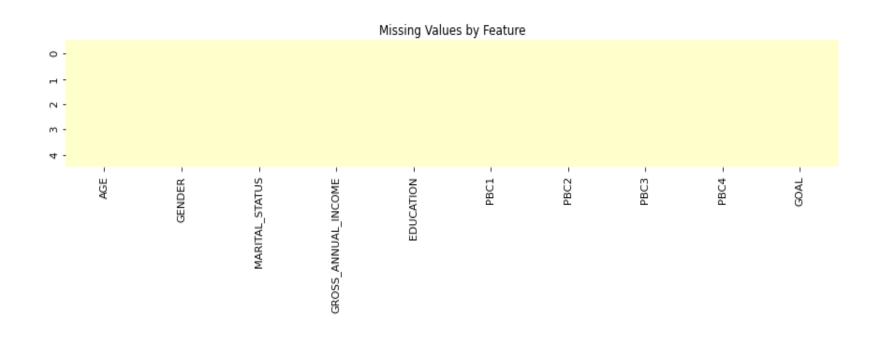






Distribution of GOAL with 0.5 cutoff

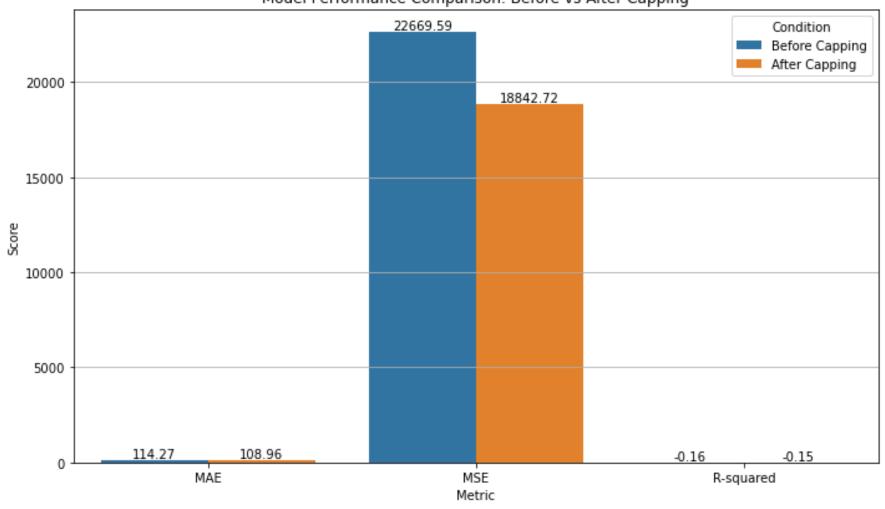


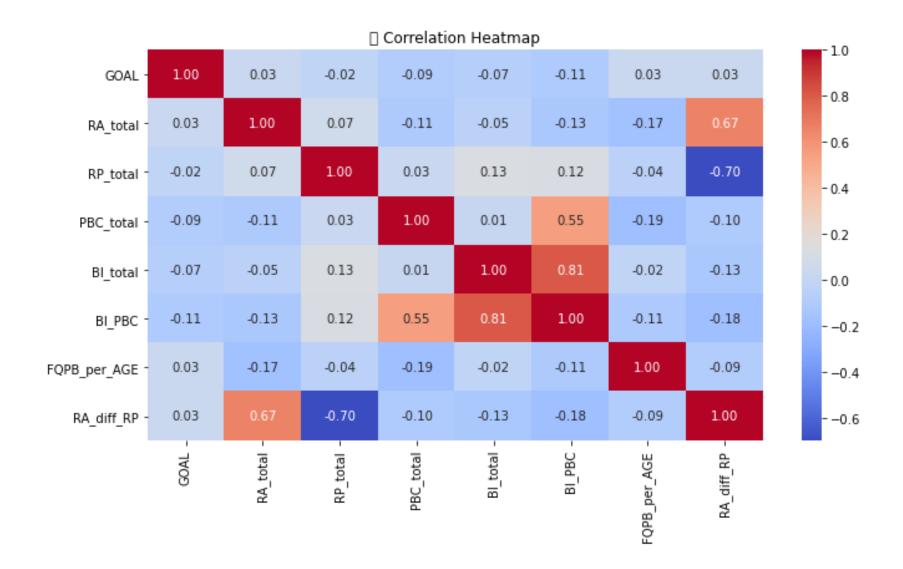


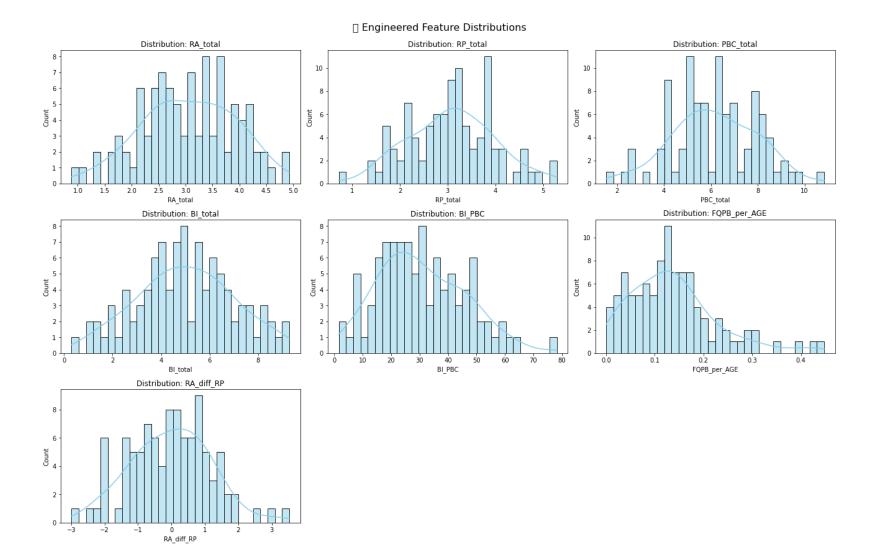
Outlier Treatment: Before vs After

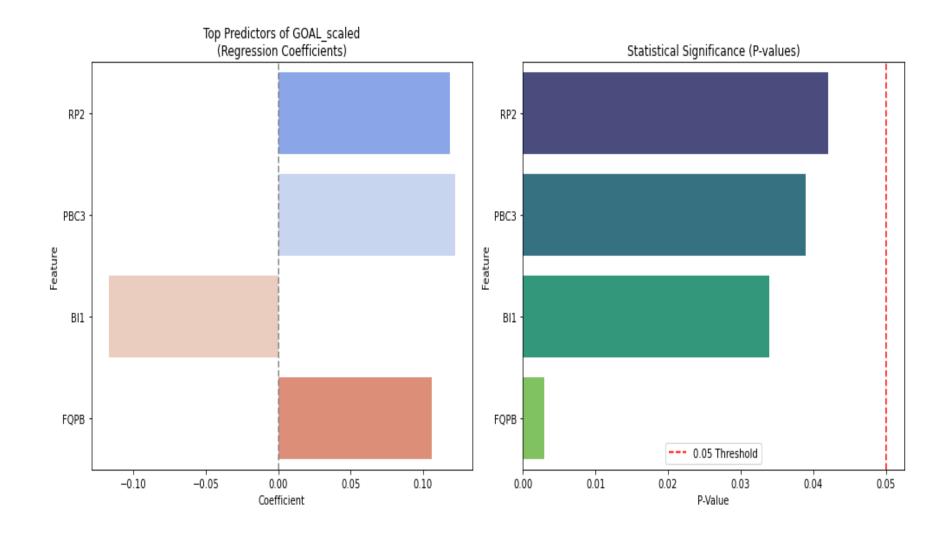


Model Performance Comparison: Before vs After Capping

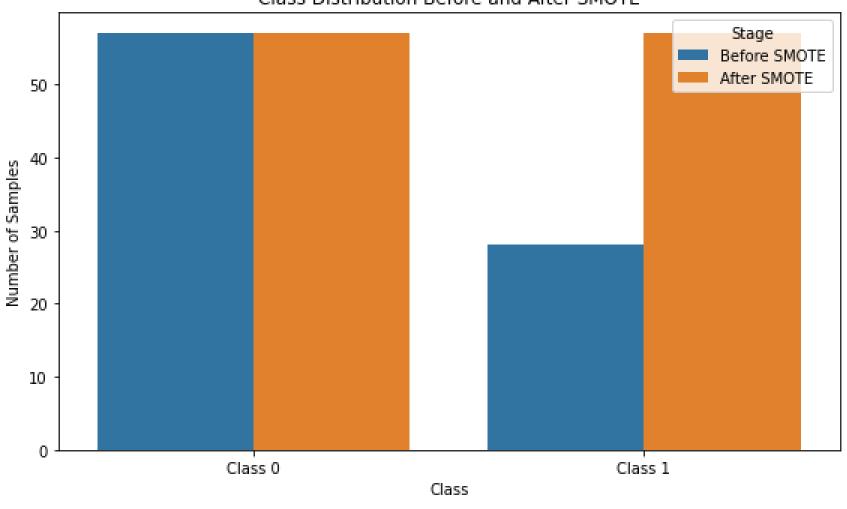


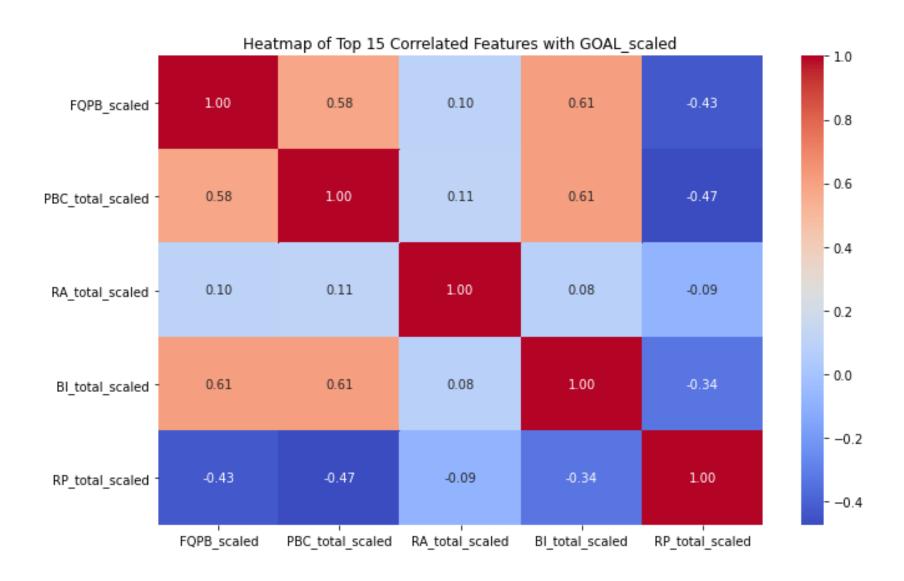






Class Distribution Before and After SMOTE





Top 10 Feature Importances (Random Forest) RP_total_scaled RA_total_scaled PBC_total_scaled BI_total_scaled FQPB_scaled 0.10 0.05 0.15 0.20 0.25 0.00 Importance

Linear Regression: Actual vs Predicted

