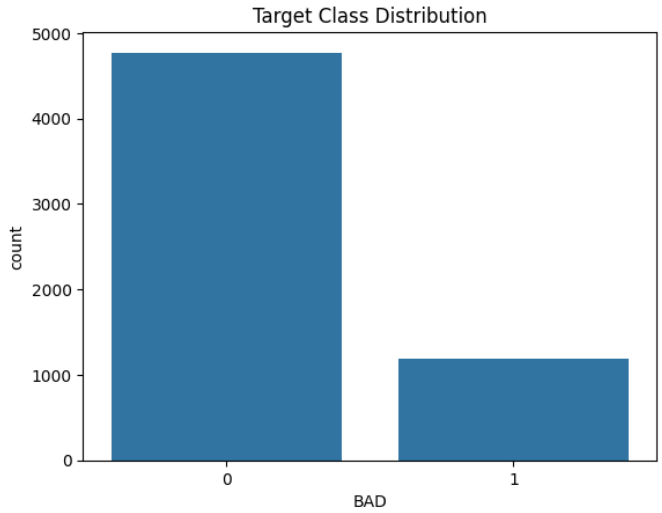
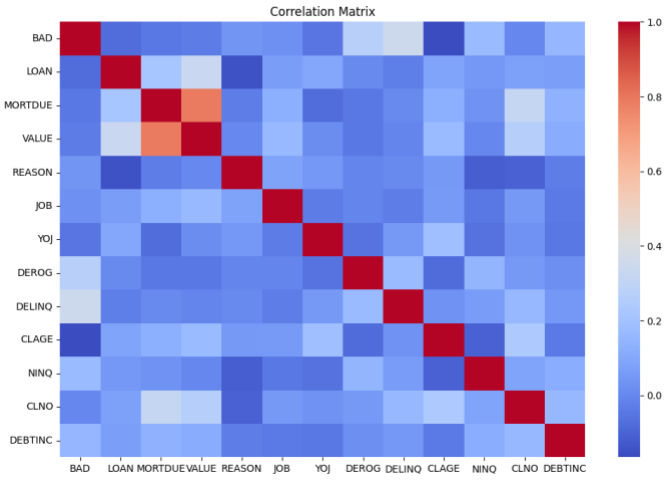
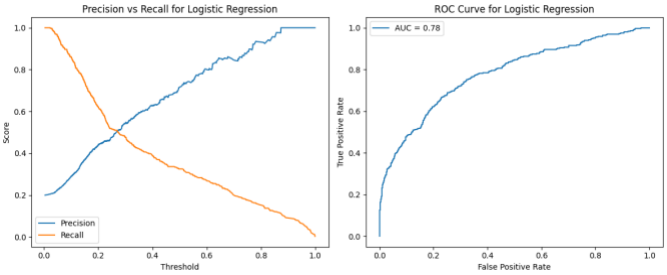
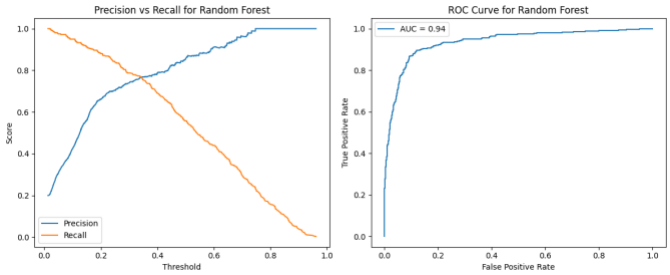
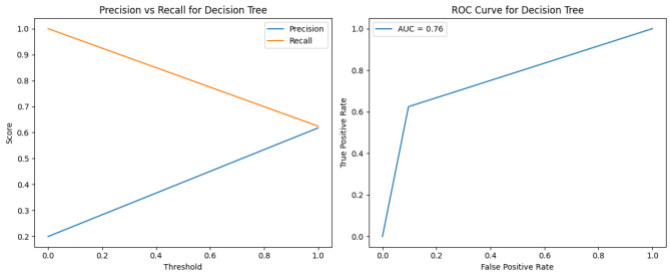
Screen Shots of Successful output:

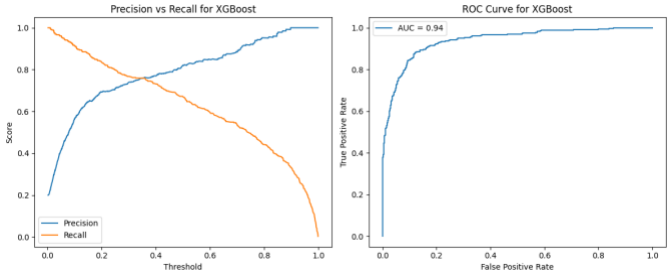


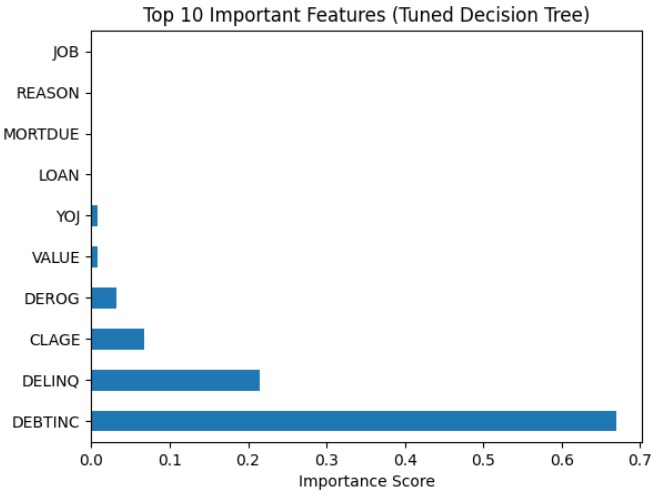


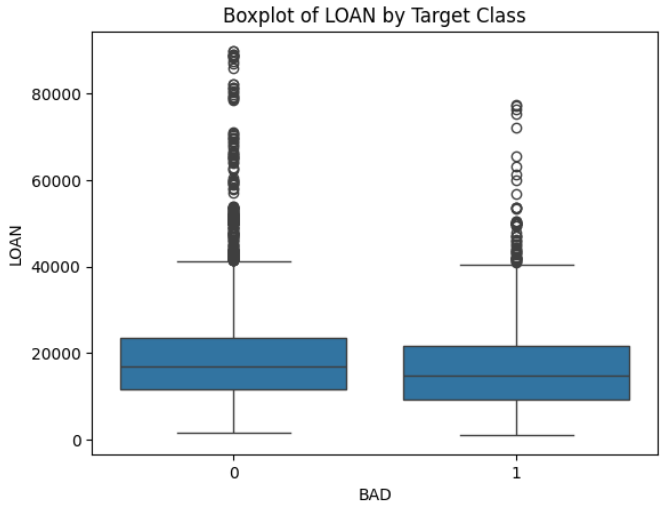


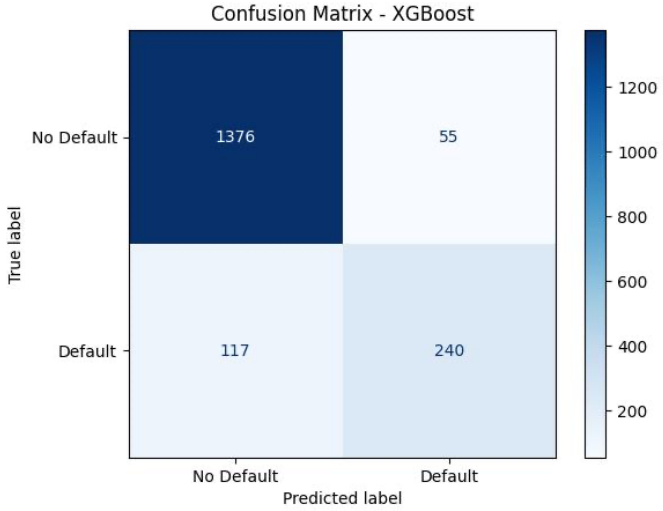

Precision vs Recall for Random Forest
Score
Threshold
Precision
Recall
ROC Curve for Random Forest
True Positive Rate
False Positive Rate
AUC = 0.94


Precision vs Recall for Decision Tree
Score
Threshold
Precision
Recall
ROC Curve for Decision Tree
True Positive Rate
False Positive Rate
AUC = 0.76


Precision vs Recall for XGBoost
Score
Threshold
Precision
Recall
ROC Curve for XGBoost
True Positive Rate
False Positive Rate
AUC = 0.94


Top 10 Important Features (Tuned Decision Tree)
JOB
REASON
MORTDUE
LOAN
YOJ
VALUE
DEROG
CLAGE
DELINQ
DEBTINC
Importance Score





	Model	False Negatives	False Positives
0	Logistic Regression	239	49
1	Decision Tree	130	133
2	Random Forest	145	32
3	XGBoost (default)	117	55
4	LightGBM	127	68
5	XGBoost (threshold = 0.3)	77	101