## Model Performance Summary

## Validation Metrics:

LR: Acc=0.759 Pre=0.530 Rec=0.775 F1=0.629 ROC=0.836 PR=0.650 Thr=0.553

RF: Acc=0.761 Pre=0.535 Rec=0.721 F1=0.614 ROC=0.827 PR=0.612 Thr=0.334

SVM: Acc=0.783 Pre=0.570 Rec=0.715 F1=0.635 ROC=0.834 PR=0.638 Thr=0.431

CB: Acc=0.808 Pre=0.644 Rec=0.612 F1=0.628 ROC=0.844 PR=0.676 Thr=0.733

## Test Metrics:

LR: Acc=0.767 Pre=0.543 Rec=0.757 F1=0.632 ROC=0.843 PR=0.613 Thr=0.540

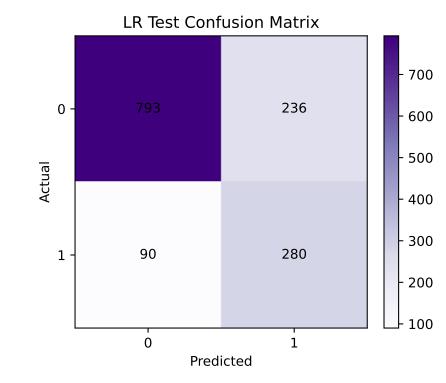
RF: Acc=0.737 Pre=0.502 Rec=0.741 F1=0.598 ROC=0.816 PR=0.574 Thr=0.264

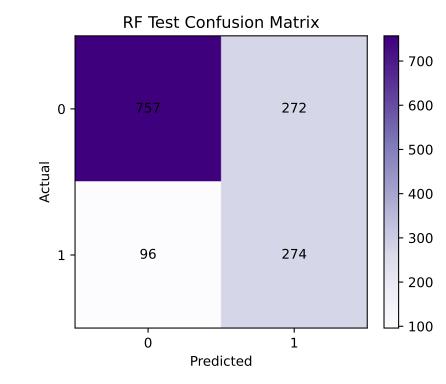
SVM: Acc=0.766 Pre=0.540 Rec=0.765 F1=0.633 ROC=0.830 PR=0.603 Thr=0.303

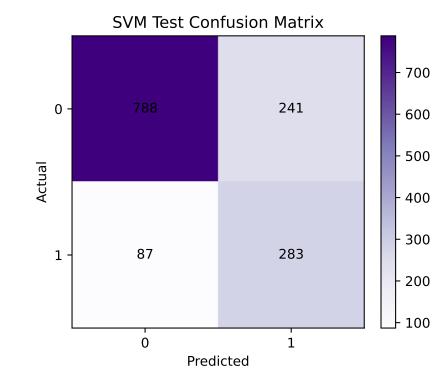
CB: Acc=0.773 Pre=0.552 Rec=0.754 F1=0.638 R0C=0.844 PR=0.641 Thr=0.528

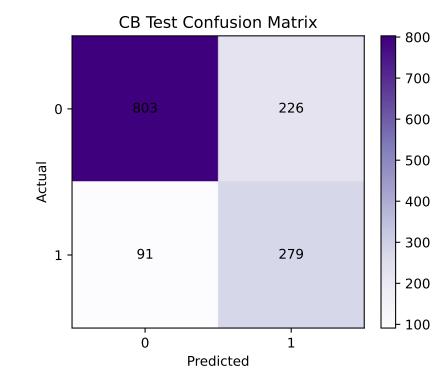
Validation Metrics Heatmap 1.0 0.629 0.836 Ir -0.759 0.530 0.775 0.650 - 0.8 rf -0.761 0.535 0.721 0.614 0.827 0.612 - 0.6 0.4 0.783 0.570 0.715 0.635 0.834 0.638 svm -0.2 0.808 0.628 0.844 cb -0.644 0.612 0.676 0.0 **<**>

Test Metrics Heatmap 1.0 0.767 0.632 0.843 Ir -0.543 0.757 0.613 - 0.8 rf -0.737 0.502 0.741 0.598 0.816 0.574 - 0.6 0.4 0.766 0.540 0.765 0.633 0.830 0.603 svm -0.2 0.773 0.552 0.638 0.844 0.641 cb -0.754 0.0 **<**>









Test Metrics Comparison (ROC/PR/F1)

