

With scoring based on roc_auc:

Best score: 0.8420588235294119 with param: {'class_weight': {0: 1.0, 1: 25}}

Final Model Parameters:

```
LogisticRegression(max_iter=10000, random_state=13, class_weight={0:1, 1:25})
```

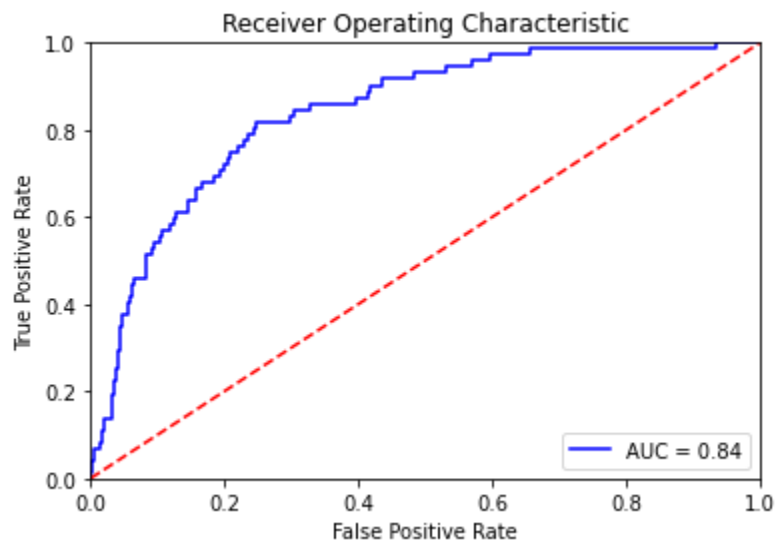
Performance Metrics:

Logistic Regression with tuned class_weight: Accuracy = 0.683

Logistic Regression with tuned class_weight: f1-score = 0.774

```
      TN    FP
array([[986, 475],
       [ 11,  61]])
      FN    TP
```

	precision	recall	f1-score	support
0	0.99	0.67	0.80	1461
1	0.11	0.85	0.20	72
accuracy			0.68	1533
macro avg	0.55	0.76	0.50	1533
weighted avg	0.95	0.68	0.77	1533



Logistic Regression with tuned class_weight: average_precision_score = 0.104

Matthews Correlation Coefficient with tuned class_weight: matthews correlation coefficient = 0.232