Best\_threshold: 2.02

Best\_pv 0.015313113600265412

Number of train samples: 524

Number of test samples: 132

Number of train positive samples: 149

Number of test positive samples 33

**最佳模型：GBDT**

Parameters for best gbdt model:

learning\_rate: 1.0

max\_depth: 3

n\_estimators: 50

acc：0.7727272727272727

recall：0.6060606060606061

auc：0.7171717171717171

**其他模型：**

SVM：

Parameters for best svm model:

C: 10

gamma: 0.5

kernel: rbf

acc：0.7878787878787878

recall：0.3939393939393939

auc：0.6565656565656566

RandomForest：

Parameters for best rf model:

max\_depth: 15

min\_samples\_split: 2

n\_estimators: 30

acc：0.7727272727272727

recall：0.36363636363636365

auc：0.6363636363636365

Parameters for best adaboost model:

learning\_rate: 0.1

n\_estimators: 200

acc：0.7272727272727273

recall：0.09090909090909091

auc：0.5151515151515151

**集成模型：**

acc：0.8106060606060606

recall：0.48484848484848486

auc：0.702020202020202