

PS10

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1 Model evaluation

Model evaluation:

Tree model

Sensitivity: .9461

Specificity: .5888

Accuracy: .8606

Logit model

Sensitivity: .9568

Specificity: .4804

Accuracy: .8428

Neural net model

Sensitivity: .9354

Specificity: .6055

Accuracy: .8564

Naive Bayes

Sensitivity: .8991

Specificity: .5997

Accuracy: .8274

KNN

Accuracy: .8454

Sensitivity: .9243

Specificity: .5946

SVM

Accuracy: .8557

Sensitivity: .9425

Specificity: .5799

Of the models tested, the tree model had the highest accuracy. The logit model had the highest sensitivity, and the neural net model has the highest specificity.