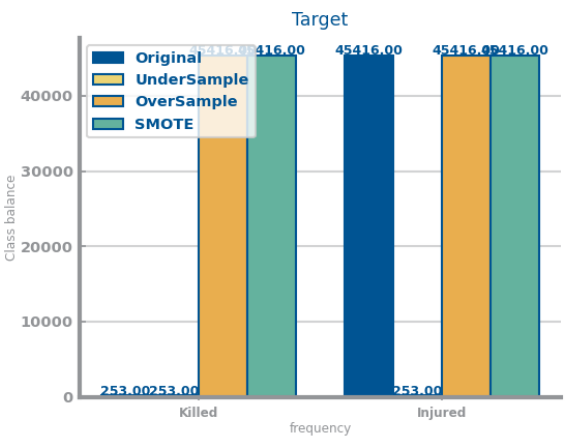
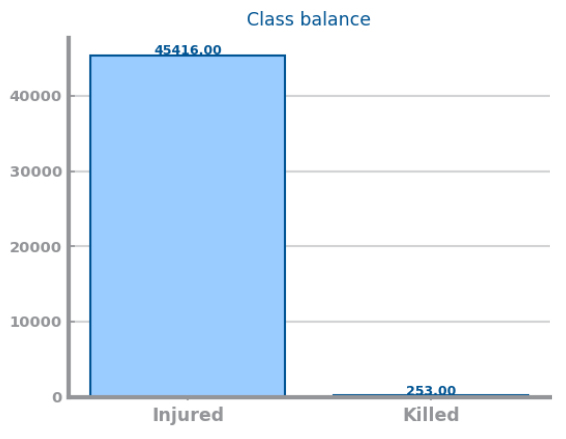
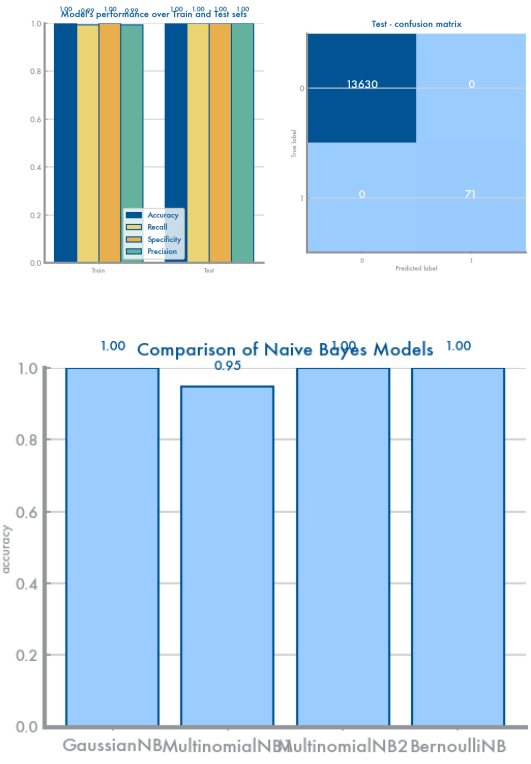
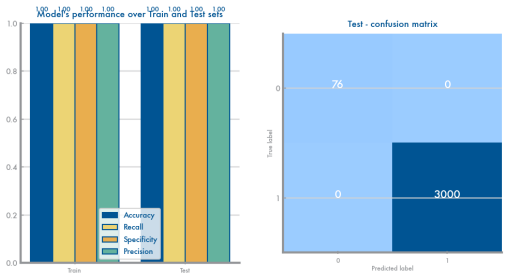
Set1:

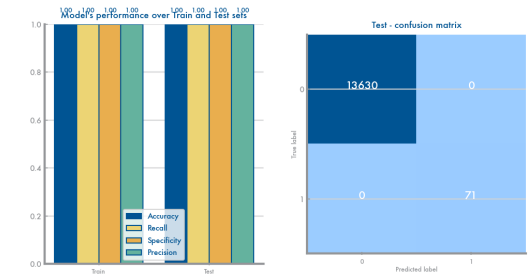
Set1 - Balancing Techniques:

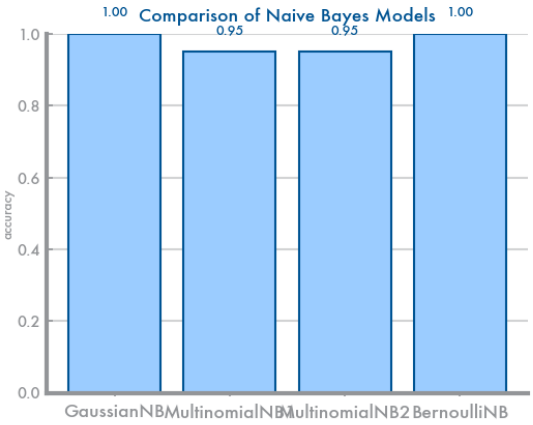




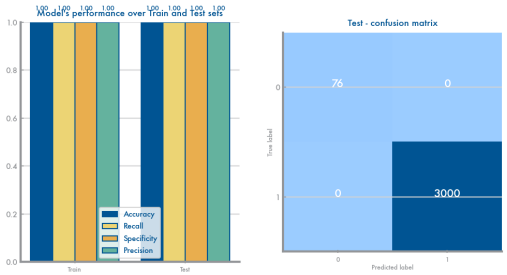
Set1 - Balancing Impact:

Naive Bayes	KNN (Neighbors = 5, manhattan)
Nothing	Nothing
	
Oversampling	Oversampling

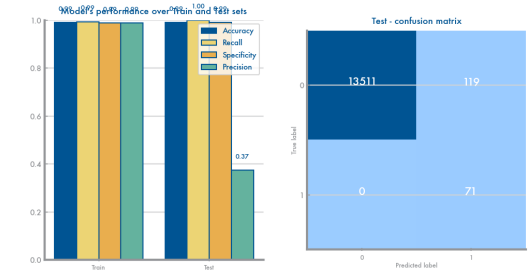


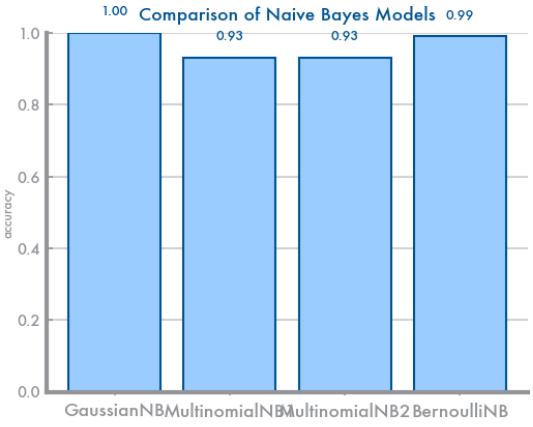


Subsampling

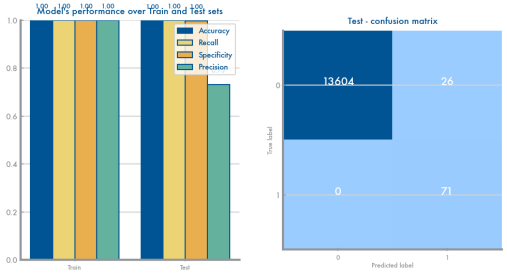


Subsampling

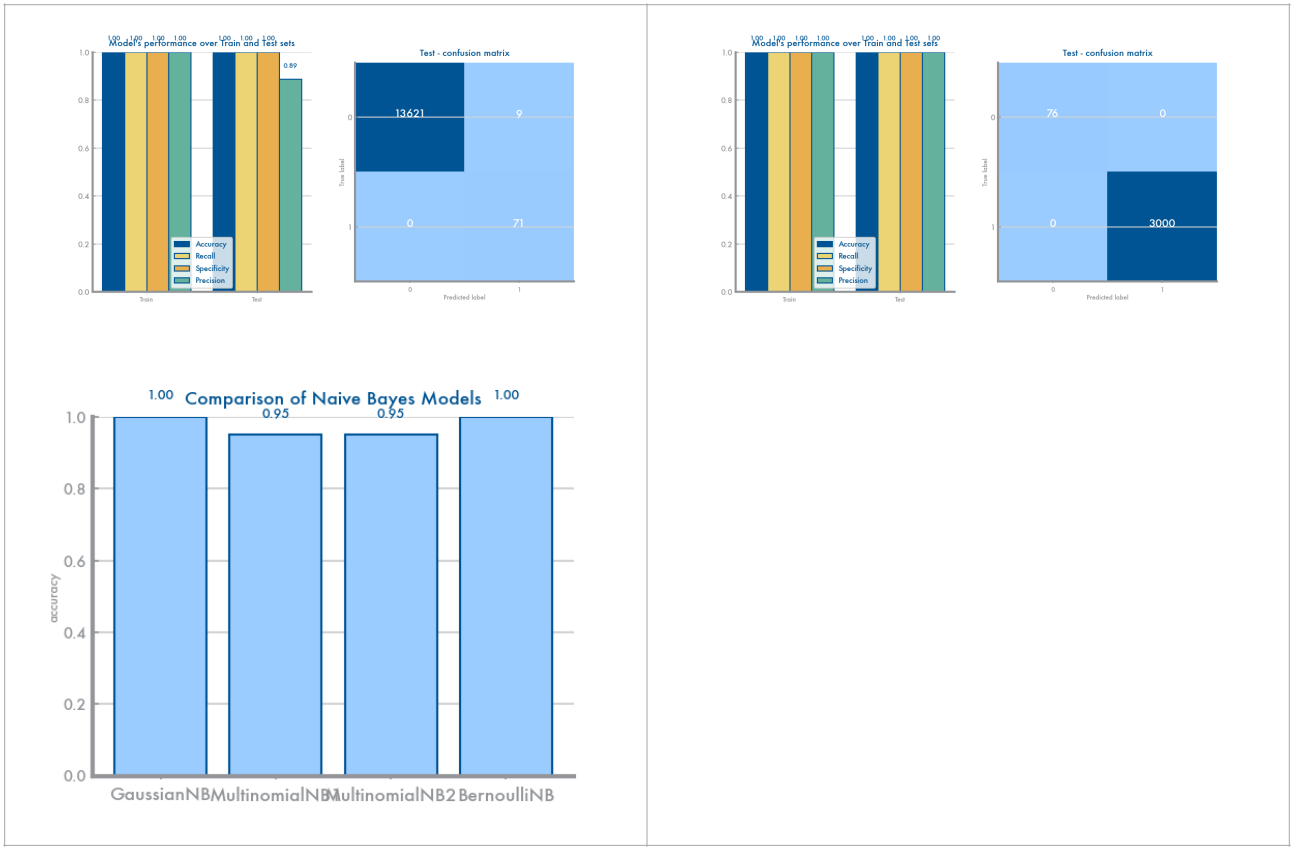




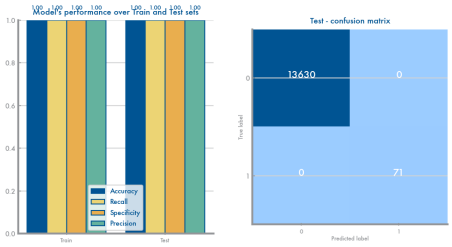
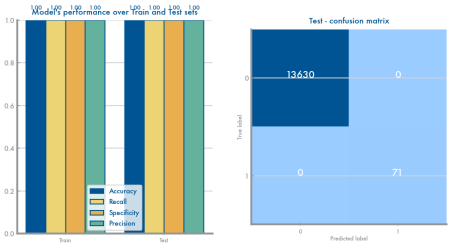
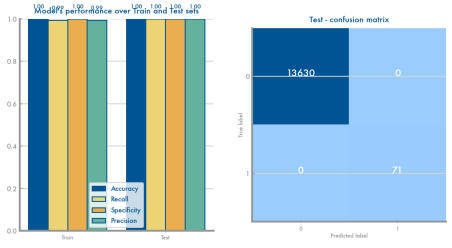
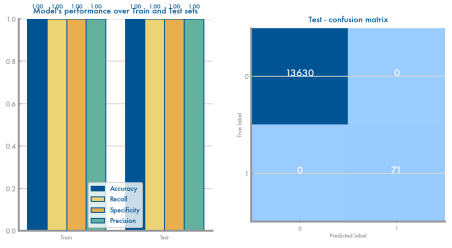
SMOTE

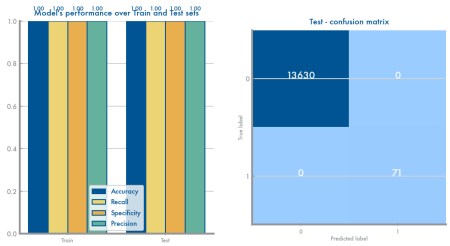


SMOTE

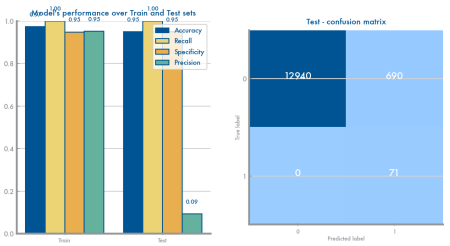


Set1 - Naive Bayes Study:

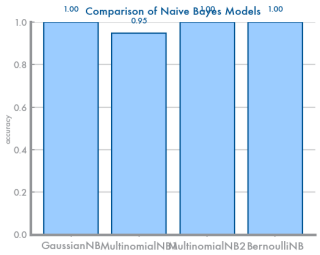
No balancing	With best balancing (Oversampling)
Gaussian	Gaussian
	
Bernoulli	Bernoulli
	
Multinomial	Multinomial



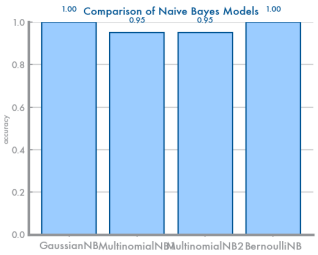
Best model evaluation



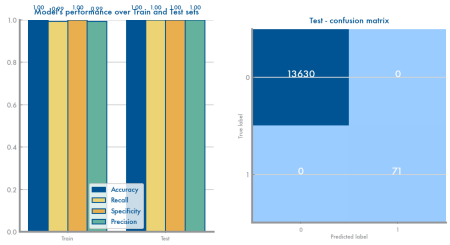
Best model evaluation

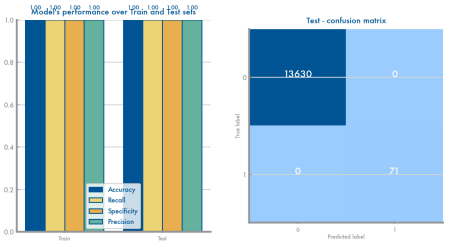


Confusion matrix



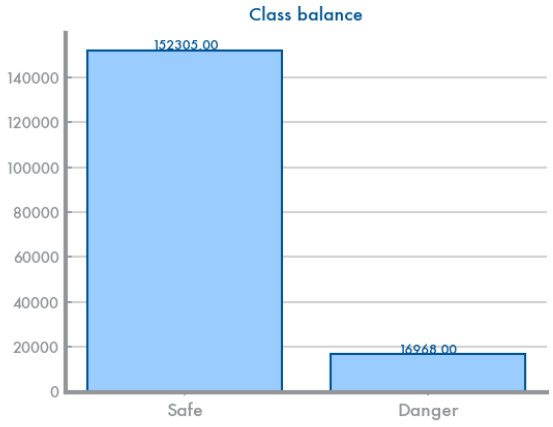
Confusion matrix

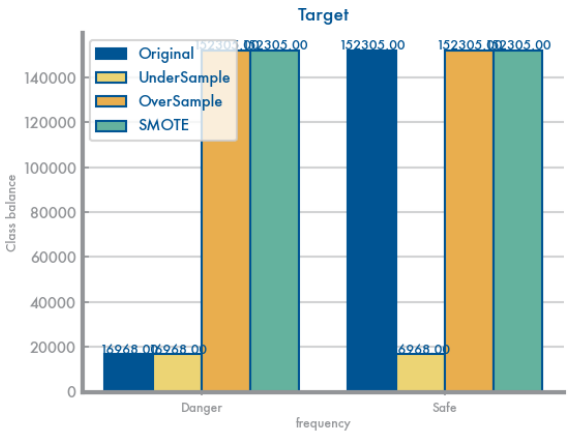




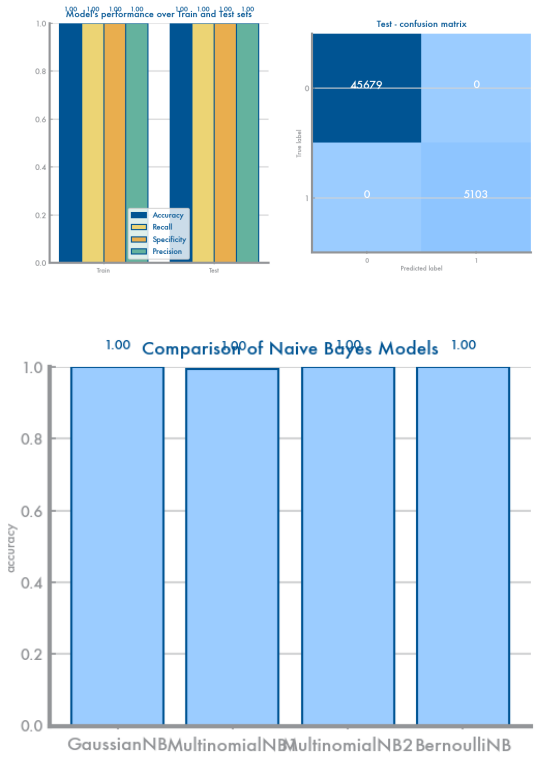
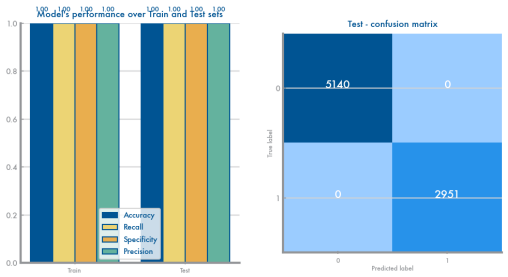
Set2:

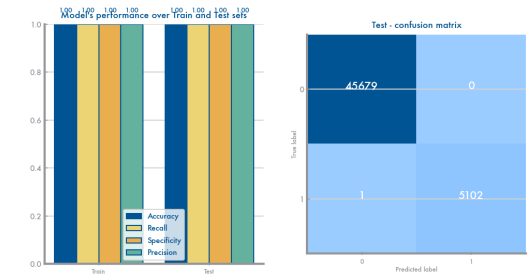
Set2 - Balancing Techniques:

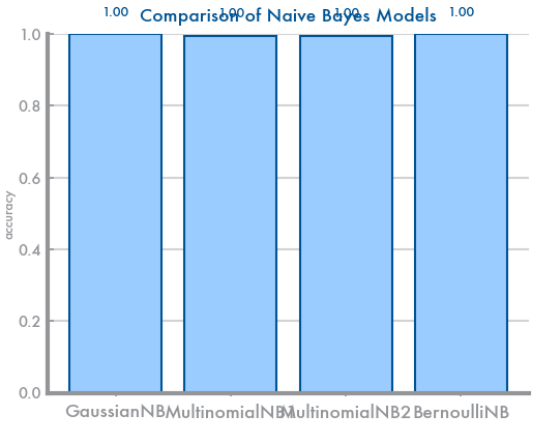




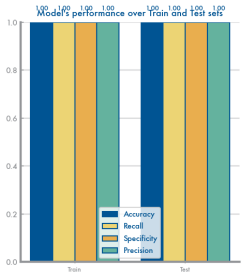
Set2 - Balancing Impact:

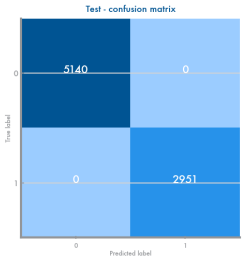
Naive Bayes	KNN
Nothing	Nothing
	
Oversampling	Oversampling



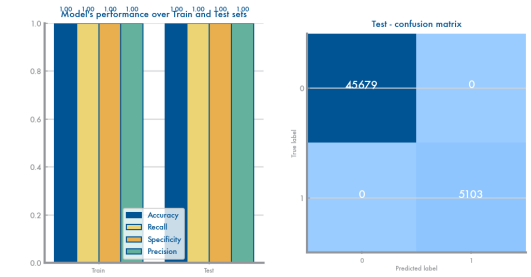


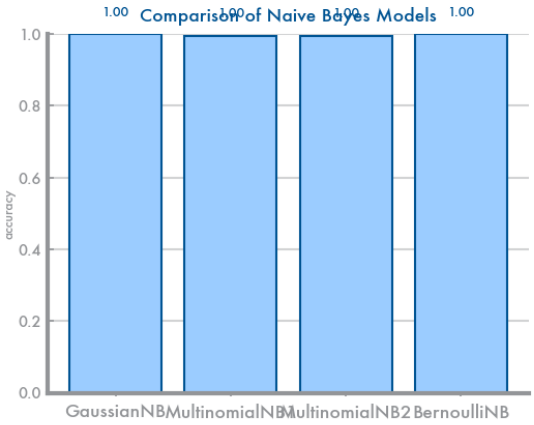
Subsampling



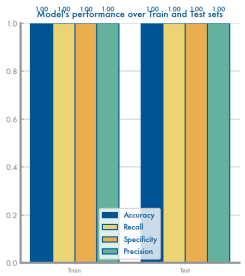


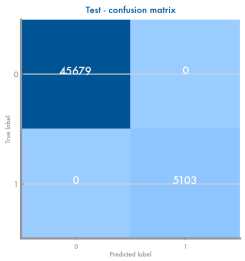
Subsampling



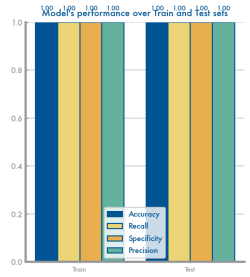


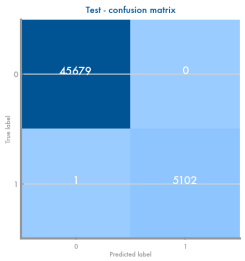
SMOTE

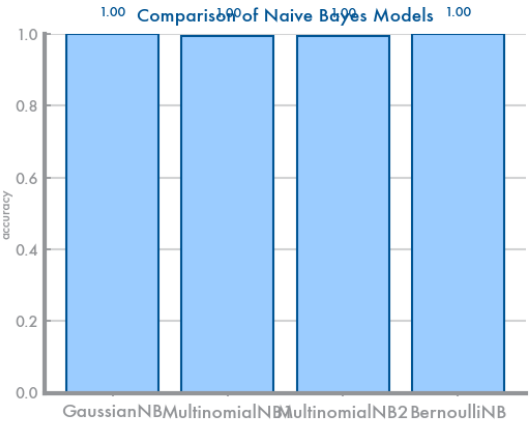


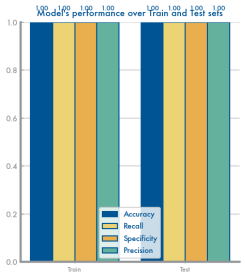


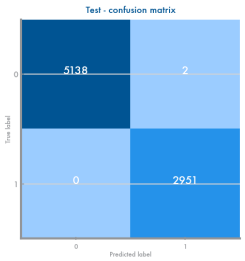
SMOTE


1.00 1.00 1.00 1.00
Model's performance over Train and Test sets
1.00 1.00 1.00 1.00
1.0
0.8
0.6
0.4
0.2
0.0
Accuracy
Recall
Specificity
Precision
Train
Test

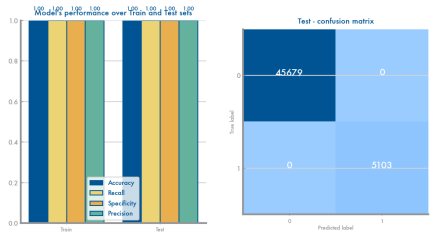
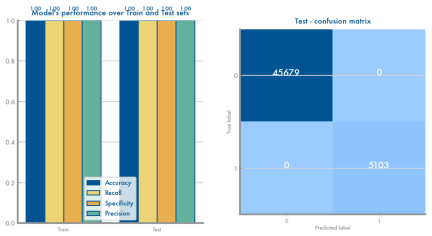
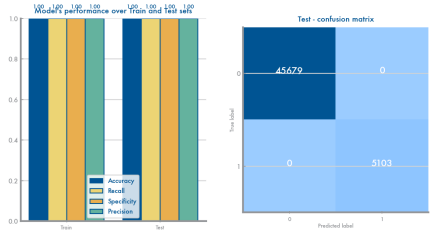
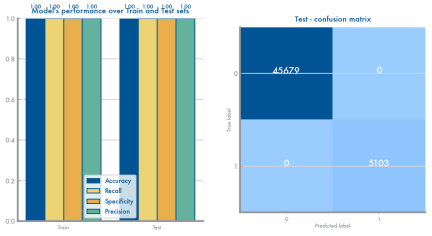
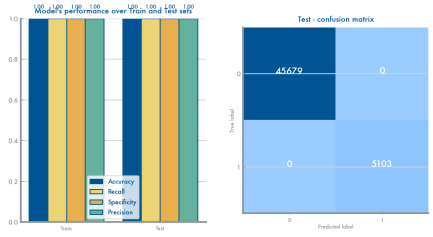
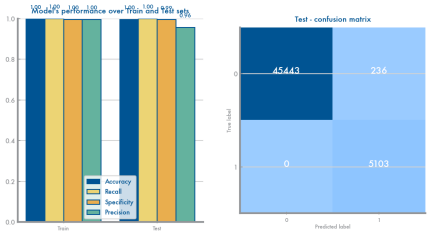
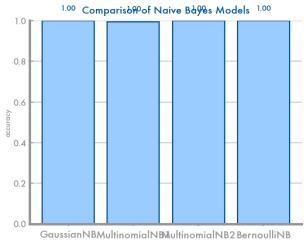
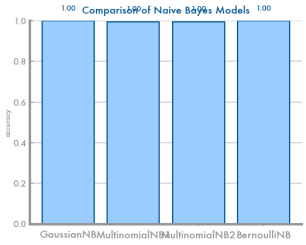

Test - confusion matrix
45679
0
1
5102
True label
Predicted label


1.00 Comparison of Naive Bayes Models 1.00 1.00
1.0
0.8
0.6
0.4
0.2
0.0
accuracy
GaussianNB
MultinomialNB1
MultinomialNB2
BernoulliNB


1.00 1.00 1.00 1.00
Model's performance over Train and Test sets
1.00 1.00 1.00 1.00
1.0
0.8
0.6
0.4
0.2
0.0
Accuracy
Recall
Specificity
Precision
Train
Test


Test - confusion matrix
5138
2
0
2951
True label
Predicted label

Set2 - Naive Bayes Study:

No balancing	With best balancing (Subsampling)
Gaussian	Gaussian
	
Bernoulli	Bernoulli
	
Multinomial	Multinomial
	
Best model evaluation	Best model evaluation
	
Confusion matrix	Confusion matrix