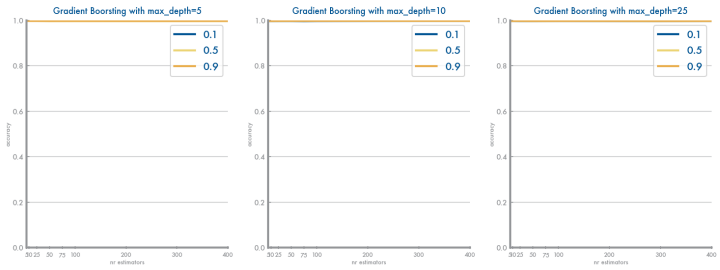
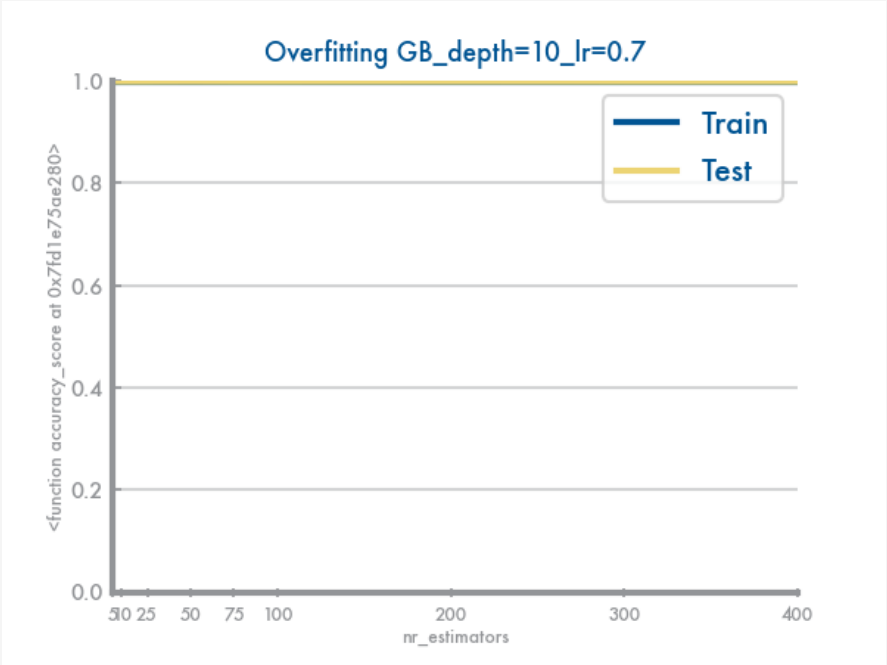
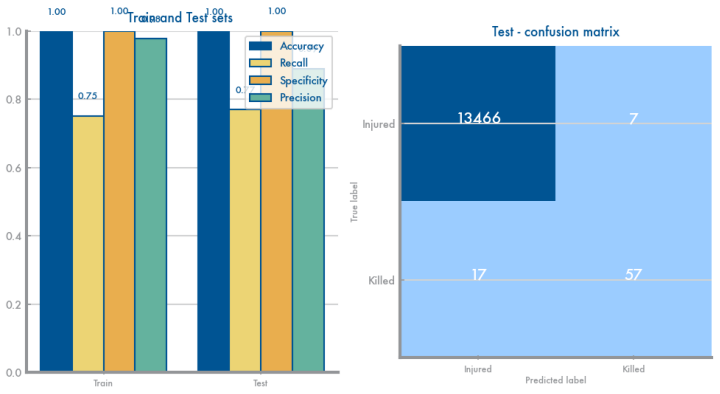
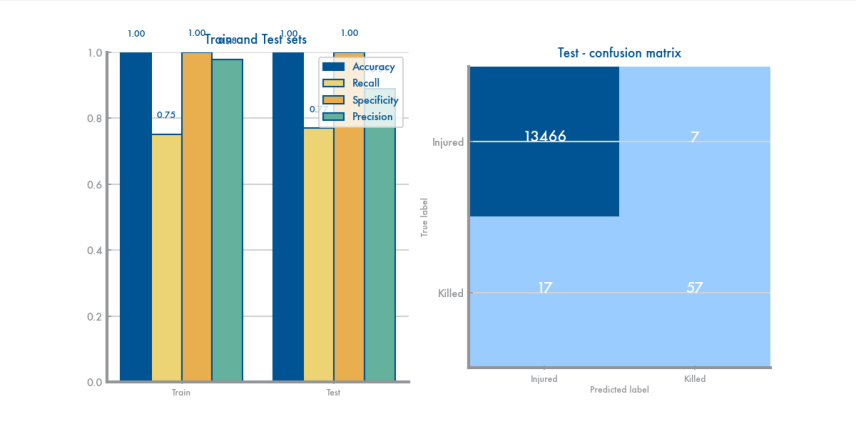
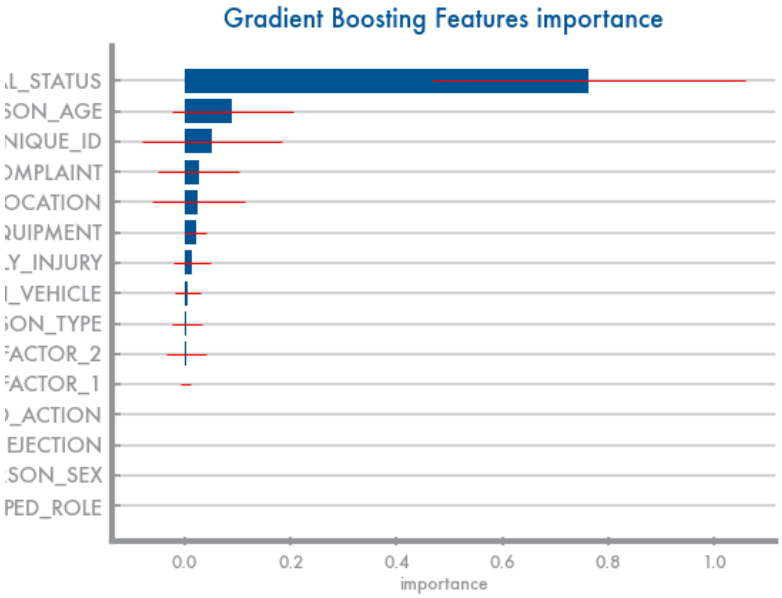
Dataset1:

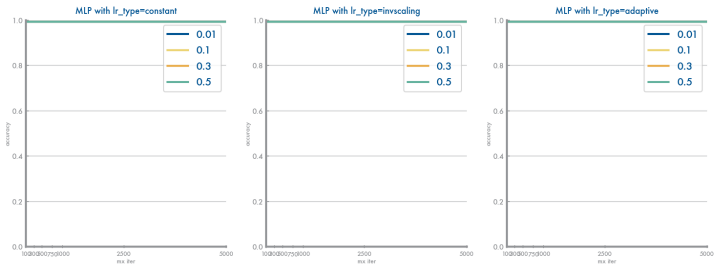
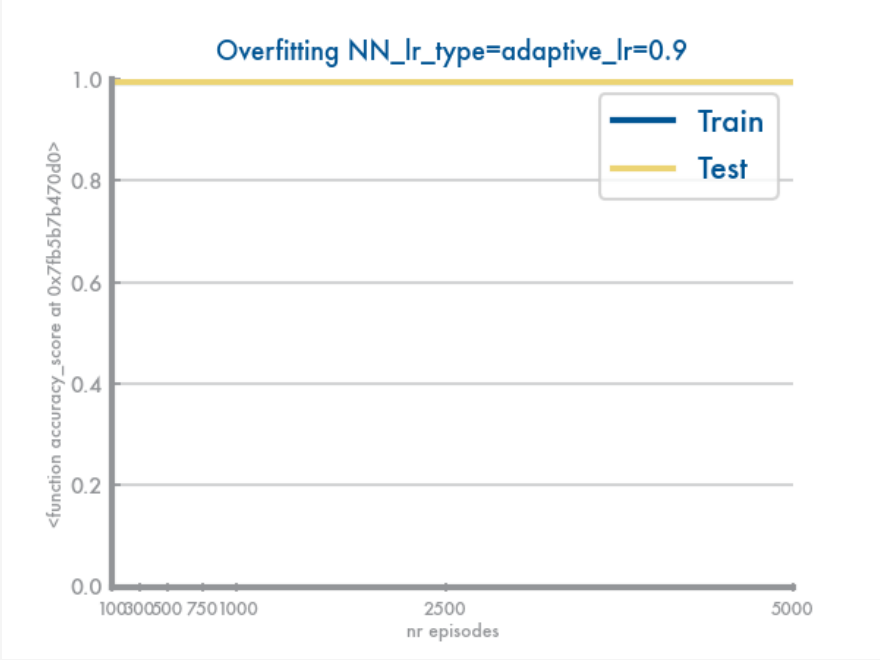
Gradient Boosting set1:

Max depth Nr of estimators Learning rate variation	
Overfitting	
Feature Selection (imagem do melhor modelo com feature selection nas variáveis!) Sem feature selection os resultados foram iguais.	

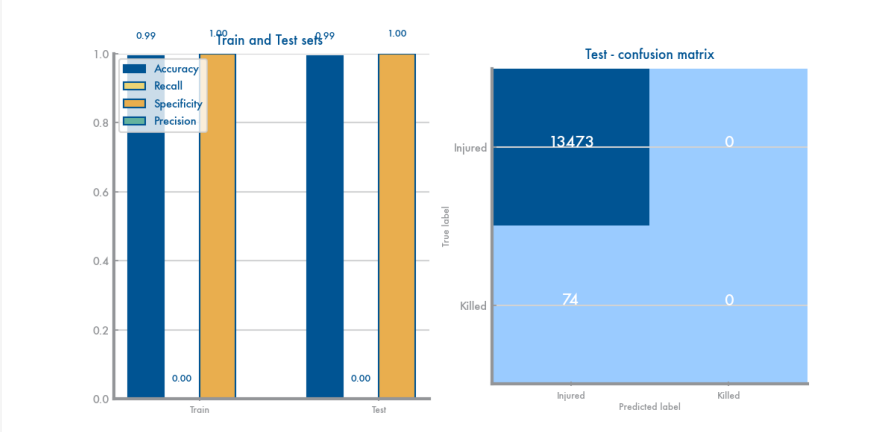
Gradient Boosting best model:

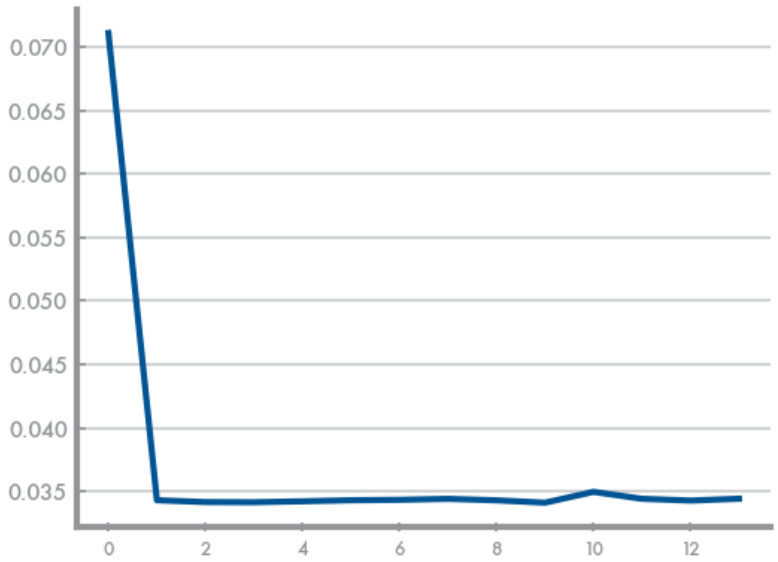
Best model evaluation	Best results with depth=5, learning rate=0.10 and 5 estimators, with accuracy=1.00
Confusion Matrix	
Features Importance	

Multi-Layer Perceptrons study:

Nr of iterations Learning rate variation Learning rate values	
Overfitting	
Feature Selection	

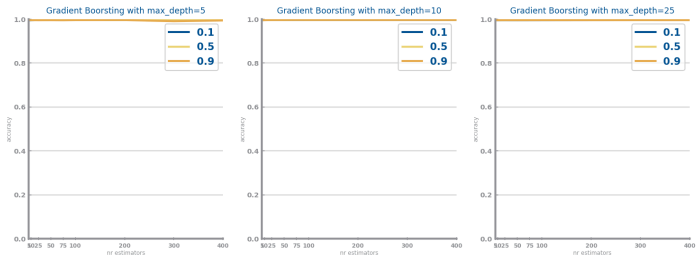
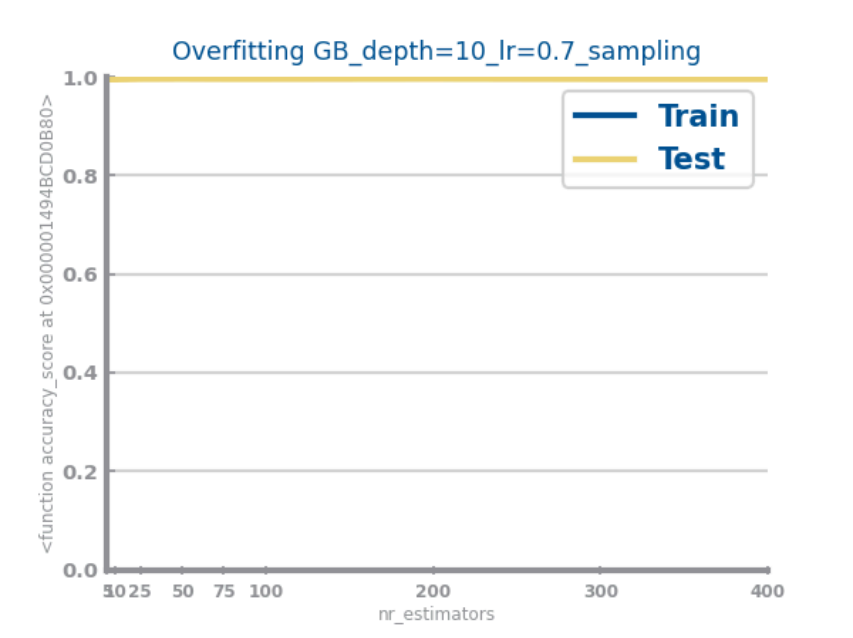
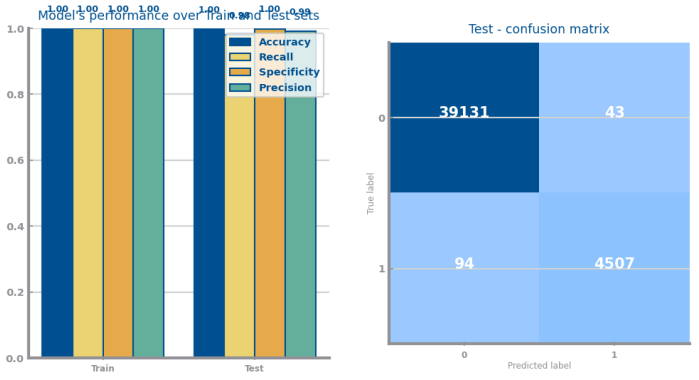
Multi-Layer Perceptrons best model:

Best model evaluation	Best results with lr_type=constant, learning rate=0.01 and 100 max iter, with accuracy=0.9945375359858272
Confusion Matrix	

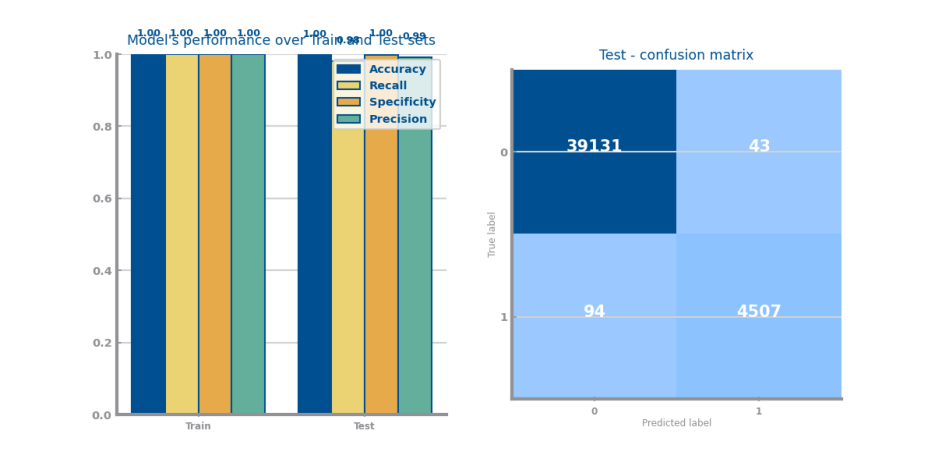
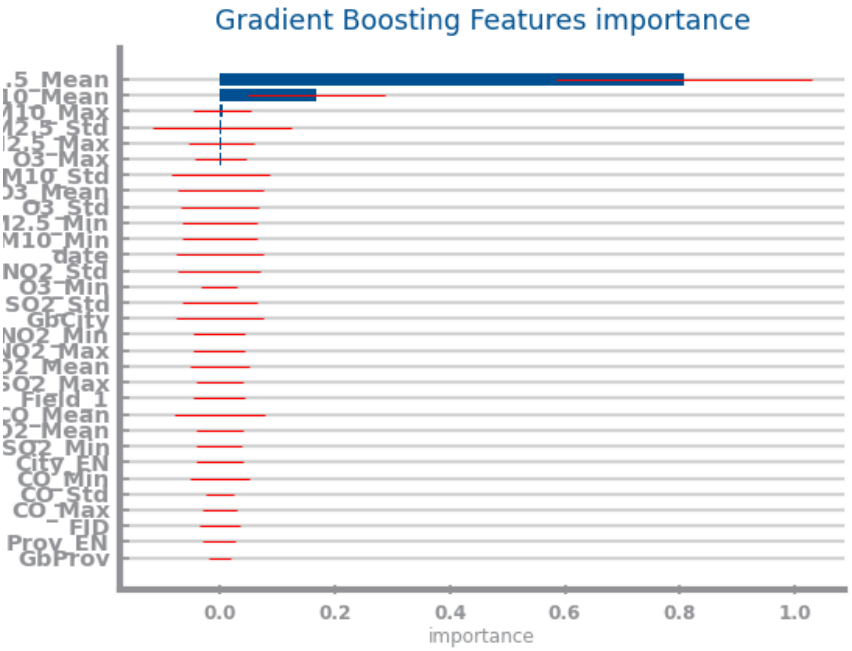
Loss evolution	

Dataset2:

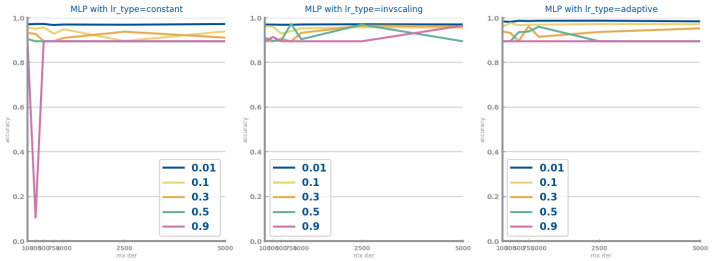
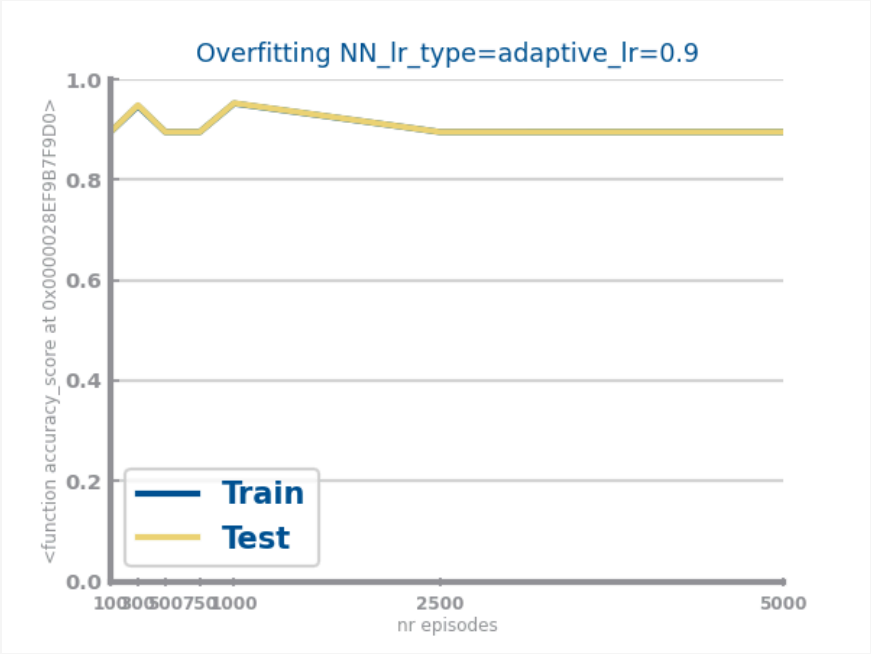
Gradient Boosting set2:

Max depth Nr of estimators Learning rate variation	
Overfitting	
Feature Selection (imagem do melhor modelo com feature selection nas variáveis!) Sem feature selection os resultados foram iguais.	

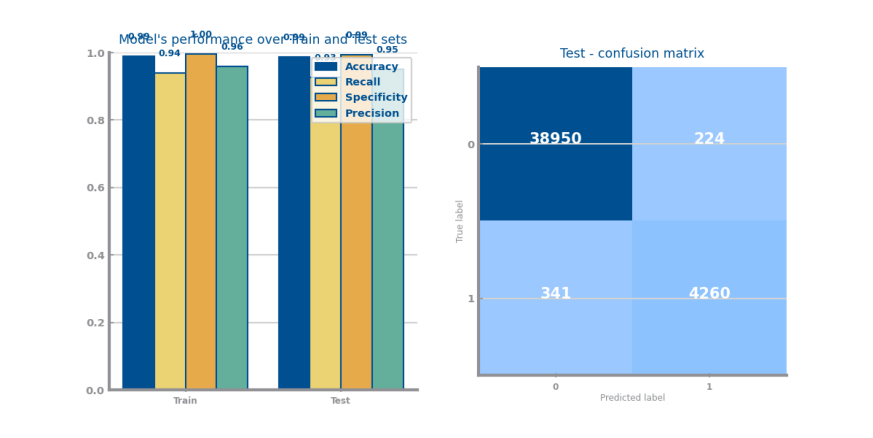
Gradient Boosting best model:

Best model evaluation	Best results with depth=5, learning rate=0.10 and 300 estimators, with accuracy=1.00
Confusion Matrix	
Features Importance	

Multi-Layer Perceptrons study:

Nr of iterations Learning rate variation Learning rate values	
Overfitting	
Feature Selection	

Multi-Layer Perceptrons best model:

Best model evaluation	Best results with lr_type=adaptive, learning rate=0.01 and 300 max iter, with accuracy=0.9729333333333333
Confusion Matrix	
Loss evolution