Model Performance

Model Name: MultinomialNaiveBayes **Test Date:** 22/05/2022 13:24:20 **Creator:** Tobias Rothlin

Overview

ML Principle:
Transformers

Algorithm Description:

References:

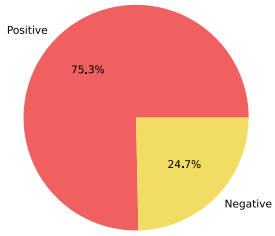
- NultinomialNB Explained

Metrics

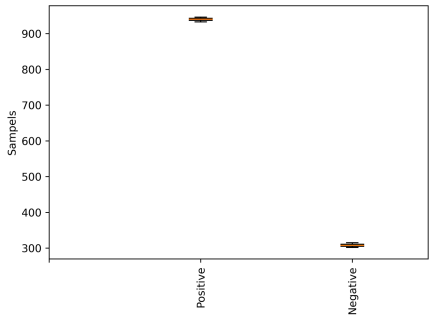
Data: ClassifiedDataSetV1.3 with 10 folds cross validation **Split seed:** 4.83819 **Training accuracy:** 80.10%

Training Dataset
(average)

Classes	Number of samples
Positive	940
Negative	307



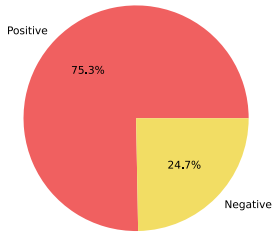
Average distribution of the samples



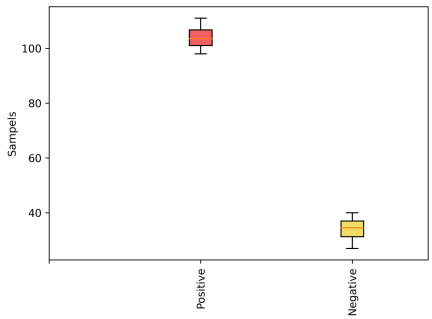
Distribution of the samples contained in each test split

Test Dataset
(average)

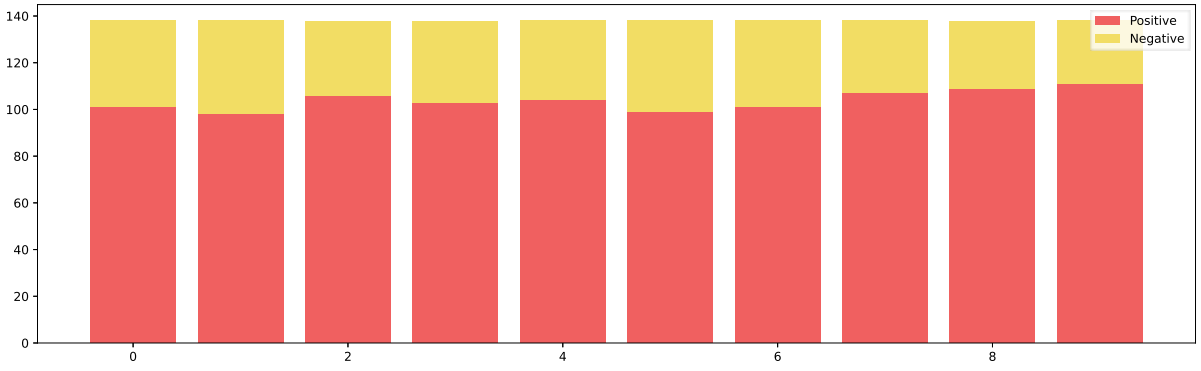
Classes	Number of samples
Positive	103
Negative	34



Average distribution of the samples



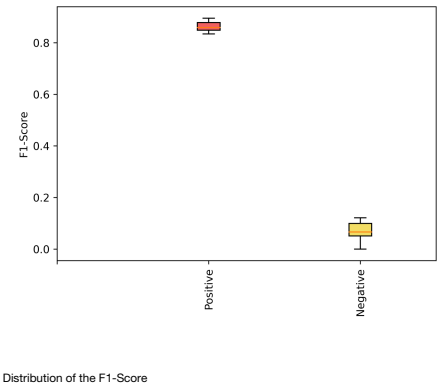
Distribution of the samples contained in each test split



Detailed training split composition

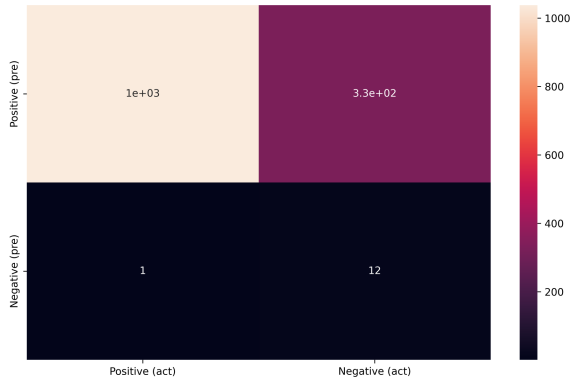
Classification Performance

Classes	Precision	Recall	F1 Score
Positive	75.93%	99.90%	86.28%
Negative	92.31%	3.52%	6.78%
Accuracy			76.09%
Macro Average	84.12%	51.71%	46.53%
Weighted Average	79.98%	76.09%	66.64%

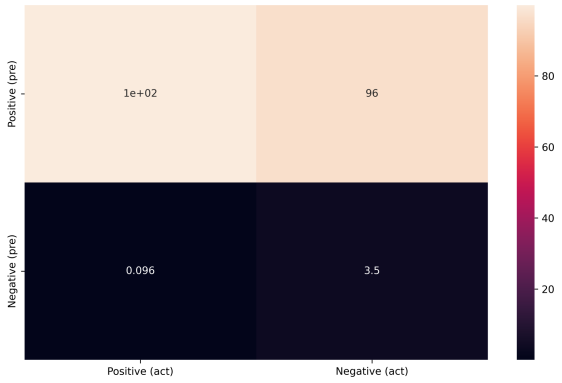


Distribution of the F1-Score

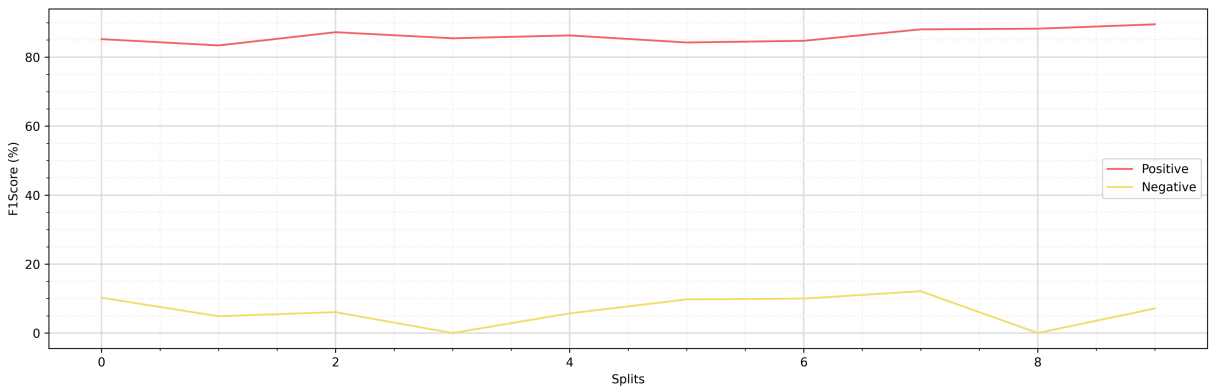
ConfusionMatrix:



Normalised ConfusionMatrix:



F1 Socre by split:



F1-Score per split

Fold:1 Alpha: 1
Fold:2 Alpha: 1
Fold:3 Alpha: 1
Fold:4 Alpha: 1
Fold:5 Alpha: 1
Fold:6 Alpha: 1
Fold:7 Alpha: 1
Fold:8 Alpha: 1
Fold:9 Alpha: 1
Fold:10 Alpha: 1