# **Model Performance**

Model Name: ScoreClassificationV15 Test Date: 17/03/2022 19:21:30 Creator: Tobias Rothlin



### Overview

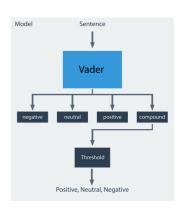
ML Principle: Vader Sentiment Analysis

#### References:

- Vader overview
- Vader github

#### **Algorithm Description:**

Vader (Valence Aware Dictionary for sEntiment Reasoning) is a pre trained model used for sentiment analysis. Vader is a lexicon and rule-based sentiment analysis tool that is specifically attuned to sentiments expressed in social media. The backbone of Vader is a dictionary that maps lexical features to emotion intensities (sentiment score). To receive the sentiment score of a sentence the intensities of each word are added. For example, words like 'love', 'enjoy' indicating a positive sentiment. Vader is smart enough to understand basic context like 'did not love' as negative. Further it has a basic understanding of capitalization and punctuation to emphasis tone. Due to this any preprocessing steps should not be done.



Classification Pipeline

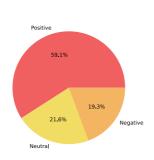
#### **Metrics**

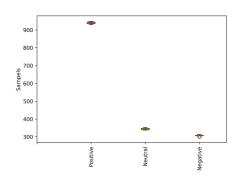
Data: ClassifiedDataSetV1.2 with 10 folds cross validation

Split seed: 60.796016

#### **Training Dataset**

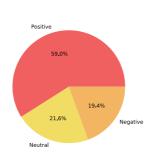
Number of samples		
940		
344		
307		

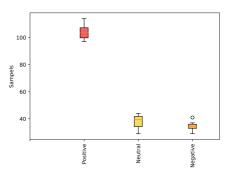


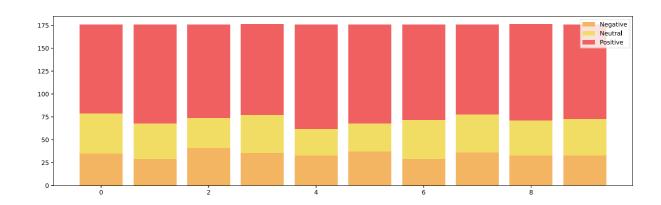


### **Test Dataset**

Classes	Number of samples
Positive	103
Neutral	38
Negative	34

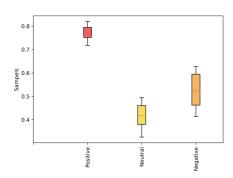




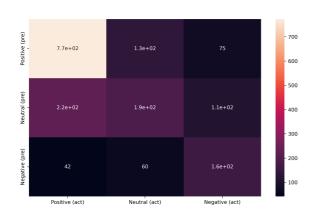


# **Classification Performance**

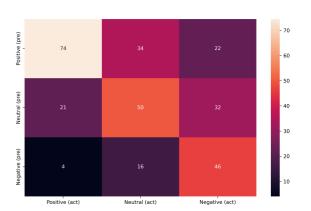
Classes	Precision	Recall	F1 Score
Positive	78.96%	74.47%	76.65%
Neutral	36.35%	49.74%	42.00%
Negative	60.92%	46.49%	52.74%
Accuracy			63.69%
Macro Average	58.74%	56.90%	57.13%
Weighted Average	66.25%	63.69%	64.52%



# ConfusionMatrix:



# Normalised ConfusionMatrix:



# F1 Socre by split:

