Hyperpartisian News detection

Florian Biebel Daan Middendorp

July 8, 2019

Table of contents

Introduction

Different attemps

Scores

Conclusion

Introduction

- Hyperpartisian News
 - "Extremely biased in favor of a political party"
- ► SemEval 2019 competition
- Datasets
 - ► By article
 - By publisher

Attempts

- Classifiers
 - Logistic Regression
 - SGD Classifier
 - Random Forest Classifier
 - Naive Base Classifier
 - CNN Keras
- Feature Unions
 - Length of article
 - Number of capitalized words
 - Number of exclamation marks

Scores

Method	Acc.	Prec.	Rec.	F1
Logistic regression	0,70-0,82	0,65-0,81	0,38-0,60	0,51-0,70
SGD Classifier	0,62-0,76	0,51-0,79	0,52-0,78	0,59-0,70
Random Forest	0,63-0,78	0,60-0,88	0,27-0,47	0,41-0,59
Naive Bayes	0,65-0,78	0,50-0,75	0,57-0,80	0,59-0,71
Log. reg. FU	0,71-0,82	0,67-0,92	0,39-0,64	0,49-0,70
SGD FU	0,34-0,70	0,0-0,40	0,0-1,0	0,0-0,58

Scores