

Research report - Hyperpartisian NLP

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1 Introduction

This report is part of a project at the Technische Universität Berlin, called Advanced Projects at the Quality and Usability Lab. During this project, the problem of hyperpartisian news detection will be solved using natural language processing. Hyperpartisian news is news that is extremely biased or sharply polarized in favor of a political party.

This problem comes from a task in the Semantic Evaluation¹ competition which is held simultaneously during this project. This makes it possible to use the dataset provided to the participants of the competition. The goal of this project is to achieve a deeper understanding of the inner working of such a system and learn how to build such a system ourselves.

2 Existing approaches

2.1 LSTM

2.2 CNN

2.3 Naive Bayes

2.4 Support Vector Machine

2.5 Logistic Regression

3 Used tools

4 Proposed solution

5 Architecture

¹<https://pan.webis.de/semEval19/semEval19-web/>