
Towards Automatic Identification of Fake News: Headline-Article Stance Detection with LSTM Attention Models

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Abstract

As participants in Fake News Challenge 1 (FNC-1), we approach the problem of fake news via stance detection. Given an article as “ground truth”, we attempt to classify whether a headline discusses, agrees, disagrees, or is unrelated to a given article. In this paper, we first leverage an SVM trained on TF-IDF cosine similarity features to discern whether a headline-article pairing is *related* or *unrelated*. If we classify the pairing as the former, we then employ various neural network architectures built on top of Long-Short-Term-Memory Models (LSTMs) to label the pairing as *agree*, *disagree*, or *discuss*. Ultimately, our best performing neural network architecture proved to be a pair of Bidirectional Conditionally Encoded LSTMs with Bidirectional Global Attention. Using our linear SVM for the *unrelated/related* subproblem and our best neural network for the *agree/disagree/discuss* subproblem, we scored .8658 according to the FNC-1’s performance metric.

1 Overview

1.1 Motivation

In the wake of the 2016 Presidential Election, fake news has been a subject of increased discussion and debate. Accurate detection of fake news will allow for the elimination of deliberately deceptive news content, which will in turn promote a better-informed general public. As a result, there has been newfound interest in developing autonomous systems to identify fake news.

1.2 Task Definition and Dataset

In February, the Fake News Challenge 1 (FNC-1) was launched by a non-profit organization with the goal of developing tools to help fact checkers tag fake news. FNC-1 specifically focuses on stance detection. Given an article that acts as “ground truth”, we are given a number of headlines that must be classified as *unrelated*, *agree*, *disagree*, or *discuss* in relation to the article. The organizers of FNC-1 hope that the winning solutions to this stance detection problem will be leveraged as filters to limit the number of articles the fact checkers will have to examine by hand.

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