

ABSTRACT

FAKE AND TRUTHFUL NEWS CLASSIFICATION ON WEBSITE ARTICLES USING NAIVE-BAYES CLASSIFIER

Mohammad Galih A.

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A website article made by a content writer with varied credibility. It composed with a huge number of characters. An article can contain anything from information to opinions. Several similar researches have been done to see whether these articles containing news can be analyzed for the purpose of classification. A Bayesian classifier allows a weighting algorithm such as TF-IDF to be implemented within it to improve performance.

In this research, the goal is to implement TF-IDF weighting to a Naive Bayes classifier in order to produce a high performance score when used for the purpose of classifying fake news and truthful news. It is done with a collection of articles data obtained from Snopes.com. The article data collected consist of 99 true news and 50 fake news

The results obtained in this research gave the highest accuracy of 81.6%, precision of 100%, recall of 78%, and F1-Score of 88%, for the system's ability of distinguishing between fake news and truthful news.

Key Words: Naive Bayes, Term Frequency-Inverse Document Frequency, Classification