Fake news detection using NLP

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Abstract:

The proliferation of fake news in online media poses a significant threat to information integrity and public trust. This research presents an innovative approach to tackle this issue through the utilization of Natural Language Processing (NLP) techniques. The study explores various NLP methods, including text classification, sentiment analysis, and linguistic feature extraction, to distinguish between genuine and fabricated news articles. Leveraging a diverse dataset and state-of-the-art machine learning models, this research demonstrates the effectiveness of NLP in identifying fake news with high accuracy. The

Fake news has a negative impact on individuals and society, hence the detection of fake news is becoming a bigger field of interest for data scientists. Attempts to leverage artificial intelligence technologies particularly machine/deep learning techniques and natural language processing (NLP) to automatically detect fake news and prevent its viral spread have recently been actively discussed.

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findings highlight the potential of NLP as a valuable tool in combating misinformation, thereby safeguarding the credibility of information disseminated through digital platforms. This work contributes to the ongoing efforts to develop robust solutions for fake news detection and encourages further exploration in this critical domain.