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Machine Learning Based Rumor Detection on Twitter Data

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Abstract

Rumors are misleading information that are not sustained at the time of circulation and are not true at the time of verification. In other words, Rumors are set of linguistic, symbolic or tactile propositions whose veracity is not quickly or ever confirmed. As the use of social media platform has grown in recent years, incorrect information and rumors have circulated widely causing a significant influence on people's lives. Rumors spreads faster than righteous news and spreads through social media. Because of the expansion of Internet and web technologies, it is now possible for anybody to post anything on online platforms such as blogs, comments on articles, post on social media, and so on, where false news, rumors, and true news are swiftly conveyed. This rapid and expansive spread of rumors has encouraged

researchers to differentiate between rumors and non-rumors data. In this work, we have used stylometric and word vector features and put them into machine learning models. These features are extracted from the twitter-16 dataset and by applying SVM, we have attain the highest accuracy in compare to existing state-of-the-art studies.

Keywords

Rumors Twitter Machine learning

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