FAKE NEWS DETECTION

Fake News

Fake news is generally spread through social media and other online media. This is often done to further or impose certain ideas and is often achieved with political agendas. Such news items may contain false and/or exaggerated claims, and users may end up in a filter bubble.

Did you ever wonder how to develop a **fake news detection project?** But there is no easy way out to find which news is fake and which is not, especially these days, with the speed of spread of news on social media. Still, some solutions could help out in identifying these wrongdoing

TfidfVectorizer?

TF (Term Frequency): The number of times a word appears in a document is its Term Frequency. A higher value means a term appears more often than others and it is very use ful for doing fake news detection and we learn what is tfidi vectorizer.
IDF (Inverse Document Frequency): Words that occur many times a document, but also occur many times in many others, may be irrelevant. IDF is a measure of how significant a term is in the entire corpus. We use this document frequence in doing fake news detection and it is important to know when we ding the project in python on fake news detection.

PassiveAggressiveClassifier?

Passive Aggressive algorithms are online learning algorithms. Such an algorithm remains passive for a correct classification outcome, and turns aggressive in the event of a miscalculation, updating and adjusting. Unlike most other algorithms, it does not converge. Its purpose is to make updates

that correct the loss, causing very little change in the norm of the weight vector.

About Detecting Fake News with Python

This advanced python project of detecting fake news deals with fake and real news. Using sklearn, we build a TfidfVectorizer on our dataset. Then, we initialize a PassiveAggressive Classifier and fit the model. In the end, the accuracy score and the confusion matrix tell us how well our model fares.

The fake news Dataset

The dataset we'll use for this python project- we'll call it news.csv. This dataset has a shape of 7796×4. The first column identifies the news, the second and third are the title and text, and the fourth column has labels denoting whether the news is REAL or FAKE.

Due to increase in the online social network development in the past few years,due to different political purpose and comericial purposes.fake news appear in large numbers and in the online world has a wide spread.

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