Fake News Identifier

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A fake news identifier is a tool that uses artificial intelligence (AI) to automatically detect fake news articles. These tools typically work by analyzing a variety of factors, including the article's content, its

source, and its language style.

Some of the most common features that fake news identifiers look for include:

• Biased or inflammatory language: Fake news articles often use language that is designed to

evoke strong emotions, such as anger, fear, or disgust.

False or exaggerated claims: Fake news articles often make claims that are not supported by

evidence, or that are exaggerated beyond what is reasonable.

Lack of credible sourcing: Fake news articles often do not cite any sources for their claims, or

they cite sources that are not credible.

• Unrealistic or unbelievable events: Fake news articles often report events that are so

unrealistic or unbelievable that they are clearly false.

Poor grammar and spelling: Fake news articles often contain grammatical errors and spelling

mistakes.

Fake news identifiers are not perfect, and they can sometimes incorrectly identify real news articles

as fake. However, they can be a useful tool for helping people to identify and avoid fake news.

Here are some examples of fake news identifier tools:

• Fake News Detector: This tool from the Stanford University News Lab uses AI to analyze

news articles for signs of fake news.

NewsGuard: This tool gives news websites a rating based on their transparency, editorial

standards, and fact-checking practices.

BuzzFeed News's Fake News Detector: This tool uses AI to analyze news articles for signs of

fake news, and it also includes a database of known fake news websites.

It is important to note that fake news identifiers are not a substitute for critical thinking. It is still

important to be skeptical of news articles, even if they have been rated as credible by a fake news

identifier tool.

Here are some tips for identifying fake news articles:

- Check the source: Is the article from a reputable news organization?
- Check the author: Is the author identified? Do they have any credentials?
- Check the date: Is the article recent?
- Check the headline: Is the headline sensational or misleading?
- Check the content: Does the article make any claims that seem unrealistic or unbelievable?
- Check the sources: Are the sources cited credible?
- Use a fake news identifier tool: There are a number of fake news identifier tools available online.

Sample Coding

(Dataset from Kaggle)

```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from nltk.corpus import stopwords
from nltk.stem.porter import PorterStemmer
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LogisticRegression
from sklearn.metrics import accuracy_score , confusion_matrix
import nltk
nltk.download('stopwords')
print(stopwords.words('english'))
news_data = pd.read_csv('/c/input/fake-news/train.csv')
news_data.head()
news_data.shape()
news_data.info()
X_{new} = X_{test}[1939]
Prediction = model.predict(X_new)
Print(prediction)
If (prediction[0]==0):
  Print('The news is Real')
Else:
  Print('The news is Fake')
```

Output:-

True

['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'h7er', 'hers', 'herself', 'it', "it's", 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't"]

(20800, 5)

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 20800 entries, 0 to 20799

Data columns (total 5 columns):

Column Non-Null Count Dtype

--- ----- ------

- 0 id 20800 non-null int64
- 1 title 20242 non-null object
- 2 author 18843 non-null object
- 3 text 20761 non-null object
- 4 label 20800 non-null int64

Dtypes: int64(2), object(3)

Memory usage: 812.6+ KB

The news is Fake