NLP for Fake News Prediction

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Problem Statement

· Lack of credibility in the news reported

Methodology

- Using NLP
- Logistic Regression Model
- Feature engineering: Bag of Words (BoW), n grams, tfidf

news2 = CountVectorizer(min_df=5, ngram_range=(1,2)).fit(X_train)

Fake news keywords (lowest coefficient):

 'via' 'read more' 'us' 'watch' 'just' 'read' 'president trump' 'com' 'via reuters', 'this'

True news keywords(highest coefficient):

 reuters' 'washington reuters' 'reuters the', 'said on', 'on wednesday', 'reuters president', 'said', 'on thursday', 'on friday', 'president donald' df.head()

	title	text	subject	date	label
0	As U.S. budget fight looms, Republicans flip t	WASHINGTON (Reuters) - The head of a conservat	politicsNews	December 31, 2017	1
1	U.S. military to accept transgender recruits o	WASHINGTON (Reuters) - Transgender people will	politicsNews	December 29, 2017	1
2	Senior U.S. Republican senator: 'Let Mr. Muell	WASHINGTON (Reuters) - The special counsel inv	politicsNews	December 31, 2017	1
3	FBI Russia probe helped by Australian diplomat	WASHINGTON (Reuters) - Trump campaign adviser	politicsNews	December 30, 2017	1
4	Trump wants Postal Service to charge 'much mor	SEATTLE/WASHINGTON (Reuters) - President Donal	politicsNews	December 29, 2017	1



