Fake news identifier using LSTM guided Recurrent neural network

Dataset: https://www.kaggle.com/c/fake-news/data?select=train.csv

Tutorial: <https://www.youtube.com/watch?v=MXPh_lMRwAI>

Code: <https://drive.google.com/file/d/1vYOvpyLAZfqb9zSdJk9loWTzXWZM2nK-/view?usp=sharing>

Accuracy : 91%

Steps

Preprocessing - all small caps , split,steming word

model:

One hot representation of text data(index number based on vocab) + padding(pre)- embedding layer(40 vector features)- LSTM

Loss - binary cross entropy

Optimizer: adam

10 epochs

Batch size - 64

Training accuracy: 99

Val accuracy: 91

* Created an LSTM-guided Recurrent Neural Network for accurately discerning fake news from genuine articles, attaining a robust 91% accuracy
* Implemented NLTK stemming for preprocessing, combined with one-hot encoding, embedding layers, and LSTM units, to accurately identify fake news.