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FAKE NEWS DETECTOR

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ABSTRACT

The issue of “fake news” has arisen recently as a potential threat to high-quality journalism and well-informed public discourse. The Fake News Challenge was organized in early 2017 to encourage development of machine learning-based classification systems that perform “stance detection” – that is identifying whether a particular news headline “agrees” with, “disagrees” with, “discusses,” or is unrelated to a particular news article -- in order to allow journalists and others to more easily find and investigate possible instances of “fake news.”

In the recent circumstances we daily see a lot of fake news being circulated which causes confusion among the people.

Our project is to detect whether the news is fake or not based on Machine learning. We did research on some papers on fake news detection using Machine learning to know about the backend software we have to be acquainted with. We also went through some YouTube videos for better understanding.

The backend software which we decided to use is TensorFlow. We are using Python language and also Python libraries like scikit-learn, Pandas, joblib and so on. We are going to process the data, build the model in Google lab using the mentioned Python libraries. We are going to use text normalization and TF – IDF vectorisation and build our model

Many universities have already produced and developed many applications for detecting fake news. So how is our project different? We are going to use as many data sets as possible for our model to reach higher accuracy. We are also planning to develop our model and provide it as a extension to the other news webpages so that we can detect whether it is fake or not.

Currently we are searching more about machine learning and also the how TensorFlow works so that we can fully understand and apply them on our model

SOFTWARE REQUIREMENTS / TECHNOLOGY REQ.

- **DEVELOPMENT TOOL** - Google Colab
- **PLATFORM** – TensorFlow
- **FRONTEND** – HTML, CSS
- **BACKEND** - Python Libraries
 - Scikit-learn
 - Joblib

HARDWARE REQUIREMENTS

- **NAME OF PROCESSOR** – Intel Core i7
- **RAM CAPACITY** – 16GB
- **HARD DISK CAPACITY** – 1TB