FAKE NEWS DETECTION USING NLP AND ML

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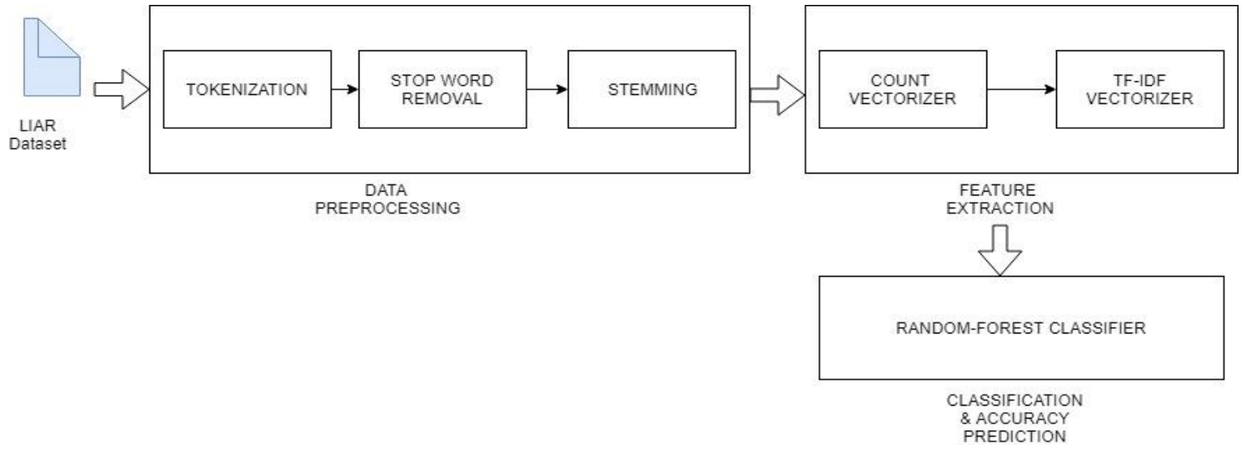
Abstract

The term 'fake news' became common parlance for the issue, particularly to describe factually incorrect and misleading articles published mostly for the purpose of making money through page views. The proliferation of fake news on social media and Internet is deceiving people to an extent which needs to be stopped. It has the potential to mold opinions and influence decisions.

Objectives

- To classify news articles into fake or true.
- To use NLP and Machine Learning for the process of classification.
- To improve the accuracy of prediction

System Architecture



Result Analysis

The confusion matrix generated and the accuracy of prediction is

```
[[ 909  486]
 [ 484 1193]]
Accuracy: 68.4244791667
Precision: 0.710541989279
Recall: 0.711389385808
F-Score: 0.710965435042
```

Conclusion

- The size of the dataset should be improved to increase the accuracy of prediction
- Advanced techniques like Tensor Embedding and Label propagation can be employed

Major References

Manisha Gahirwal,Sanjana, MogheTanvi ,KulkarniDevansh, KhakharJayesh Bhatia, *Fake News Detection [online]*