Fake News Detection

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**Introduction:**

As the information online is growing, the problem of false news has been apparent as it is becoming default to detect weather a news source is trustworthy. Through the past years, it has become easy to post false information and pass it as news to cause a panic, or to manipulate another person’s decision. Fake news is the deliberate spread of false information through social media or news media. The aim of spreading misinformation could be for damaging the reputation of a person or entity, or making money through advertising revenue.

**Scope:**

This project demonstrates the detection of false news using machine learning classification algorithms. Using the data found at Kaggle, which contains 4 columns and over 40 thousand rows. The data which consists of two excel files, one contains real news, whereas the other contains fake news. I have 4 features that I’m using, including the author, the text article, a date, and subject. This project applies decision Tree classification, gradient boost classification, and random forest classification model to predict whether a news report is fake or not.

**Tools:**

* Python
* Pandas
* NumPy
* scikit\_learn
* plotly dash

**Sources:**

* [1] Fake and real news dataset. (2021). Retrieved 1 December 2021, from https://www.kaggle.com/clmentbisaillon/fake-and-real-news-dataset