AI Assignment: Fake News Detector

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Nowadays, we have an uncontrollable amount of news being shared on social media and it's difficult for users to determine whether it's fake news or not. Fake news have a tendency to spread faster than actual facts and human detection tends to be slow, subjective and not scalable. In this case, we aim to design and implement an AI system capable of detecting fake news articles using Natural Language Processing and machine learning techniques. The system will analyze news content on social platforms like Instagram, Facebook, Tiktok and even WhatsApp and the internet to distinguish between real and fake news. The motivation for this project came from a recent incident where a message spread rapidly on WhatsApp, claiming that schools would be closed the next day due to bad weather, which was later debunked and labelled as fake news by Defimedia. We aim to use traditional machine learning and deep learning. The outcome that we are trying to achieve is that the AI will go through each and every verified social platforms and websites and look through every post and will determine whether it is propaganda and we expect a rate of around 90% accuracy as an outcome with our AI.

Datasets we plan to use:
https://www.kaggle.com/datasets/mahdimashayekhi/fake-news-detection-dataset
https://www.kaggle.com/datasets/khushikyad001/fake-news-detection
https://www.kaggle.com/datasets/clmentbisaillon/fake-and-real-news-dataset
https://www.kaggle.com/code/therealsampat/fake-news-detection?scriptVersionId=53633812&cellId=7