Jaypee Institute of Information Technology, Noida



MINOR PROJECT

Information Security Lab

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**INTRODUCTION**

**TOPIC: FAKE NEWS DETECTION**

Social media for news consumption is a double-edged sword. On the one hand, its low cost, easy access, and rapid dissemination of information allow users to consume and share the news. On the other hand, it can make viral “fake news”, i.e., low-quality news with intentionally false information.

In the recent years, the reliability of information on the Internet has emerged as a crucial issue of modern society. Social network sites (SNSs) have revolutionized the way in which information is spread by allowing users to freely share content. As a consequence, SNSs are also increasingly used as vectors for the diffusion of misinformation and hoaxes.

When the Internet was first made accessible for public use in the 1990s, its main purpose was for the seeking and accessing of information.As fake news was introduced to the Internet, this made it difficult for some people to find truthful information. The impact of fake news has become a worldwide phenomenon.Fake news is often spread through the use of [fake news websites](https://en.wikipedia.org/wiki/Fake_news_website), which, in order to gain credibility, specialize in creating attention-grabbing news, which often [impersonate](https://en.wikipedia.org/wiki/Website_spoofing) well-known news sources.Jestin Coler, who said he does it for "fun",also said he earned US$10,000 per month from advertising on his fake news websites.In 2017, the inventor of the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web),[Tim Berners-Lee](https://en.wikipedia.org/wiki/Tim_Berners-Lee) claimed that fake news was one of the three most significant new disturbing Internet trends that must first be resolved, if the Internet is to be capable of truly "serving humanity."

Fake news in the words of Donald Trump is:misinformation consisting of either completely fabricated elements or in a subtler manner, the association of truth with lies in an effort of attracting attention on an issue or a cause by feeding on people’s gullibility.

For [example](https://www.buzzfeed.com/craigsilverman/viral-fake-election-news-outperformed-real-news-on-facebook?utm&utm_term=.xcGkVBNoxk), the most popular fake news was more widely spread on Facebook than the most popular authentic mainstream news during the U.S. 2016 president election. Therefore, fake news detection on social media has attracted increasing attention from researchers to politicians.

Therefore, fake news detection on social media has recently become an emerging research that is attracting tremendous attention.

**SOLUTION APPROACH**

There are certain techniques available that have been applied to solve the problem of fake news like sentimental analysis, building a biased classifier, developing cloud source and application which have a flaw that they totaly rely on public or absolute labelling of true and false by the classifier is prone to bias based on the data set on which the algoriyhm was trained on. Thus, stance detection is one solution to train this problem.

It is extremely difficult to spot fake news in the gilormous amount of data generated each day on the digital media.Thus, we leverage machine learning models like logistic regression,multi layer perceptron,Random Forest ,Support Vector Machine(SVM) media to detect the percentage of fake news .