

**GOVERNMENT COLLEGE OF ENGINEERING BARGUR**

**( AUTONOMOUS)  
 ARTIFICIAL INTELLIGENCE**

**PROJECT TITLE: FAKE NEWS DETECTION USING NLP**

**TEAM MEMBERS:**

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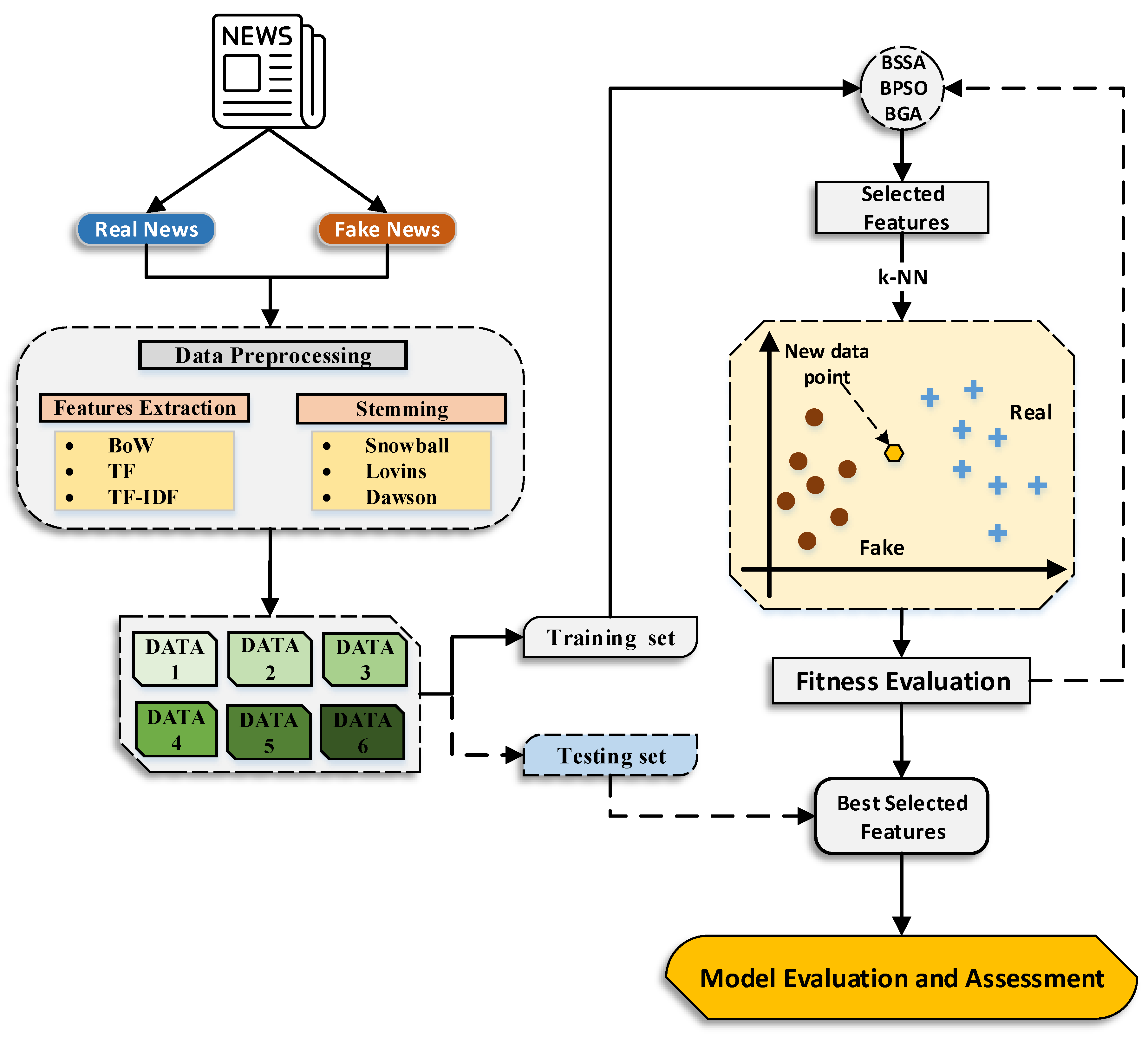
**PROBLEM STATEMENT:**

It involves developing algorithms and models to accurately identify and classify misinformation in news articles or social media posts. The goal is to create a system that can distinguish between reliable and fake news sources based on various factors such as credibility, source reputation, fact-checking, and content analysis. The challenge lies in designing effective algorithms that can analyse large amounts of data and detect patterns or indicators of fake news with high accuracy.

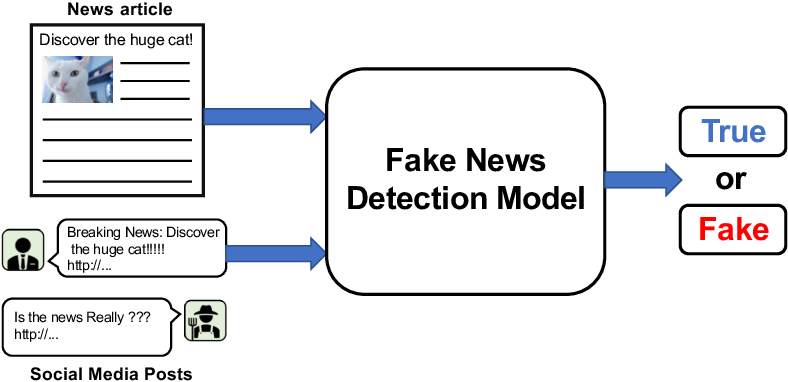
**PROBLEM SOLUTION :**

* To solve the problem of fake news detection, various approaches can be taken.
* One solution involves using natural language processing (NLP) techniques to analyse the content of news articles and identify patterns that indicate misinformation.
* This can include analysing the language used, fact-checking claims, and identifying biased or misleading information.
* Additionally, machine learning algorithms can be trained on labelled datasets to classify news articles as either reliable or fake based on features such as source credibility, writing style, and social media engagement.
* Regular updates and improvements to the algorithms are crucial to keep up with evolving techniques used by those spreading fake news.
* To tackle the problem of fake news detection is by leveraging the power of crowdsourcing.

* Platforms can engage users to report and flag suspicious or misleading content, which can then be reviewed by fact-checkers or community moderators.
* This collaborative approach helps in identifying and verifying the accuracy of news articles through collective efforts.
* Additionally, educating users about media literacy and critical thinking skills can empower them to identify and question sources of fake news, thereby reducing its impact.

**MODEL OUTPUT:** 

**DEMO:**



**DATASET:**

The dataset is taken from

<https://www.kaggle.com/code/aurelegermain/fake-news-with-naive-bayes-nlp>

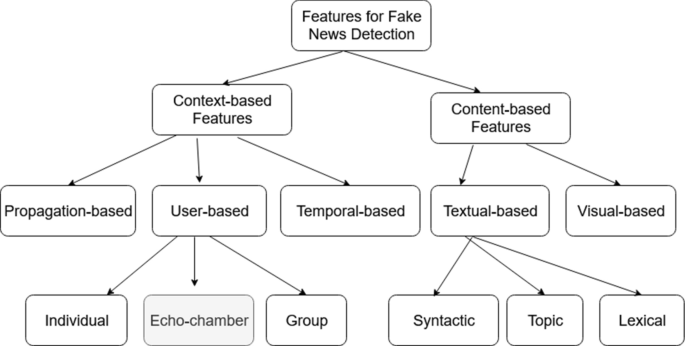
**SOFTWARE REQUIRED:**

* Python - 3.X
* Pandas - 1.2

**LIBRARIES USED:**

* NLP(Natural Language Processing)

**MINDMAP:**



**CONCLUSION:**

* Get data from BuzzFeed news
* Extend the dataset using data from social media
* Detect communities around fake news posts and real news posts
* Analyse our results to detect unusual user behaviour