

# Distributed System of Fake News Detection and Real-Time Social Media Monitor

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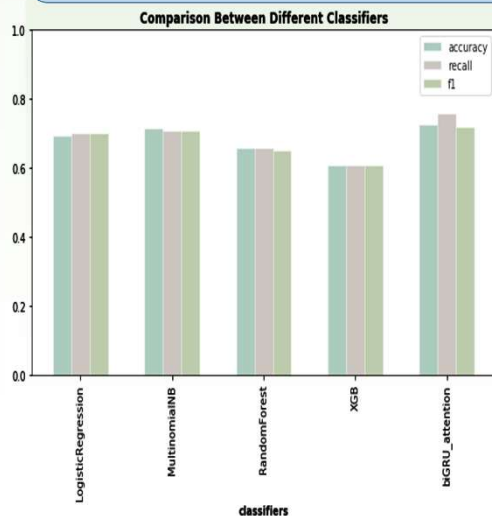
## Scheduler

### Daily trigger

NEWS API -> news headlines

Name Entity  
Recognition -> daily news  
keywords

Twitter API -> highly focused  
Twitters related to keywords  
-> news URL, Twitter URL, etc.



## Streaming

Data preprocessing (NLP techniques)

Distributed web crawling technique to obtain the comments for news

Social Media Monitoring (/10 mins)

Kafka Producer

Fake News Detection (Daily)

mongoDB

Streaming Analysis

Motivation:  
The extensive spread of 'fake news' and social media reaction.

Solution: **Real time** Big data pipeline with deep learning model and analysis.

Product: Fake news detection and social media reaction monitor with web visualization.

1

• Distributed web crawling technique with Spark to obtain the News content

2

• Data preprocessing(NLP techniques)

3

• Use Bi-directional Attention Model to classify the news

