

# **News Tracker Application**

## **Introduction**

News is one of the primary sources of information about actions and events happening everywhere. It may have happened in the past, it may be happening now, or it may happen in the future. In this era of rapid technological development and adaptability across all demographics, we need to deliver news in a way that is relevant to current technology trends. Our modern lives are so busy that we often feel we need more than 24 hours. A day to process what is on the schedule. It's not possible, but it can help save time by changing the way you read the news. Please let us know the market news that interests you. Take a sneak peek at what happened that day. Save your time by only reading what you think is relevant. This app helps you to query all information about indices, commodities, currencies, futures rates, bonds, etc. just like the official website.

## **Literature survey**

Here we look at all previous solutions, attempts and implementations of news tracker applications, or at least anything vaguely related to them.

## **Existing Solutions**

NewsBreak is a popular site for reading current and historical news through your Internet browser. This site works by aggregating news from various sources and presenting them in a way that is suitable for users to read. You can also record, manage your profile, manage the number of messages read, bookmark messages, and comment at the end of messages.

S.No	PaperTitle	Author(s)	Year	Resource
01	Exploring mobile news reading interactions for news app personalisation	Marios Constantinides, John Dowell, David Johnson, Sylvain Malacria	August, 2015	<ol style="list-style-type: none"> <li>1. Identification of news reader types</li> <li>2. Interaction logging and Classification study</li> <li>3. Deployment and data collection</li> <li>4. Predicting News reader types</li> <li>5. Adaptive User</li> </ol>
02	Detection and Tracking in News Articles	Sagar Patel, Sanket Suthar, Sandip Patel, Neha Pate	March, 2015	<ol style="list-style-type: none"> <li>1. Pre-processing</li> <li>2. Tokenization</li> <li>3. Stemming/Lemmatization</li> <li>4. Vector Space Model</li> <li>5. Topic tracking</li> </ol>
03	Following the Fed with a News Tracker	Michael William McCracken	January, 2012	The paper is not a technical paper but is essentially a statistical paper on how should one conclude whether the data have come in stronger, weaker or as expected. This is based on the CitiGroup U.S Economic Surprise Index
04	An End-to-end Weakly-supervised News Aggregation Framework	Xijin Tang, Xiaohui Huang	June, 2022	The framework combines Snorkel-based weakly-supervised classification, Latent Dirichlet Allocation (LDA) topic modeling, and topic signal detection model to classify and aggregate unlabeled news texts and ultimately generate visualized results containing news categories, news topics, and temporal topic relationships. This paper uses constructed knowledge thesaurus and the Snorkel method to weakly supervise the classification of unlabeled news with no manual tagging. Subsequently, we utilize LDA to generate the topics and obtain the signal value of each topic based on the topic signal detection function. Finally, we establish the temporal topic relationships and get the visualized results of news aggregation.