

# News Tracker Application

## INTRODUCTION

The foremost value of news is as a utility to empower the informed. The purpose of news is thus to provide citizens with the information they need to make the best possible decisions about their lives, their communities, their societies, and their governments.

Digital news continues to evolve, encouraged by various innovations in recent times, from groundbreaking new technologies like virtual reality and automated reporting to experiments on social platforms. A News Tracker will help you find the right headlines which will provide the right information that the user is interested in by analyzing their interests.

## LITERATURE SURVEY

- 1. Title:** Exploring mobile news reading interactions for news app personalisation  
**Year:** August 2015  
**Resource Link:** [News reading interactions for news app personalisation](#)  
**Authors:** Marios Constantinides (Nokia Bell Labs), John Dowell (University College London), David Johnson, Sylvain Malacria  
**Abstract:** A survey of user's news reading preferences and behavioral analysis were made. These analyses revealed three primary types of reader. Users' interaction with the logs were deployed in an application. And the logs were used to train a classifier and showed that it is able to reliably recognise a user according

to their reader type. A method for monitoring users' news reading behavior and inferring news reader type were recognised from different recognising patterns of news reading interactions.

**2. Title:** Breaking News Detection and Tracking in Twitter

**Year:** 2010 IEEE

**Resource Link:** [Breaking news detection and tracking in twitter](#)

**Authors:** Swit Phuvipadawat, Tsuyoshi Murata (Tokyo Institute of Technology, Japan)

**Abstract:** A method to collect, group, rank and track breaking news in Twitter is being introduced in this paper. All the messages are grouped on certain factors and each group is ranked based on popularity and reliability factors. Current detection method is limited to the facts part of messages. So an application called "Hotstream" is developed based on the proposed method. Users can discover breaking news from the Twitter timeline. Each story is provided with the information of message originator, story development and activity chart. Hence providing a convenient way for people to follow breaking news and stay informed with real-time updates.

**3. Title:** Topic Detection and Tracking in News Articles

**Year:** March 2017

**Authors:** Sagar Patel (Charotar University of Science and Technology), Sanket Suthar, Sandip Patel (Charotar University of Science and Technology), Nehal Patel (Charotar University of Science and Technology)

**Resource Link:** [Topic Detection and Tracking in News Articles](#)

**Abstract:** This paper follows an approach by combining a variety of learning techniques. Topic detection is an unsupervised task and topic tracking is supervised task. Agglomerative clustering is used to create topic clusters and KNN classifiers for tracking topics and identifying the clusters that fall into the same category. News from different sources all around the globe are collected. Thus the collection of different news from different sources have the same events. Newspapers normally receive the news from various news agencies with very few changes. Thus the corpus of news articles which contain the same events written by different journalists are eliminated from the collection. The main purpose of research is to identify interesting events happening in the world. The objective is to decompose topics to extract the events which have never been seen before and combine them which represent the same news stories. Here text mining utilizes techniques from the field of data mining, combining methodologies from various other areas such as

categorization, information retrieval, clustering, summarization, information extraction, computational linguistics, concept linkage and topic tracking to let out important information in news and its headlines.

**4. Title:** Following the fed with a news tracker

**Year:** January, 2012

**Authors:** Michael William McCracken

**Resource Link:** (PDF) Following the Fed with a News Tracker (researchgate.net)

**Abstract:** This paper describes and points out the essence of how data is predicted to be strong, weak, or as expected and how it should be concluded.