

**Ideathon Phase
Literature Survey**

Date	02 October 2022
Team ID	PNT2022TMID05824
Project Name	News Tracker Application
Maximum Marks	2 Marks

Introduction:

The idea for an app is that would allow users to share the news. News is one of the primary sources of gaining information about the actions and events that happen all around. It may be an event that happened in the past, happening now or going to happen in the future. Only read what you feel is relevant and save your time. This is better than old conventional newspapers as you can see news anytime and anywhere now. This will also have live updates. This app will have some other features like adding your own news as an editor and people can see your published news too.

LITERATURE SURVEY:

I. Exploring mobile news reading interactions for news app personalization.

Source: ResearchGate

Authors: Marios Constantinides, John Dowell, David Johnson, Sylvain Malacria.

Websites: [Exploring mobile news reading interactions for news app personalisation \(ResearchGate\)](#)

About the Paper:

We report a series of three studies addressing key issues in the development of adaptive news app interfaces. We first surveyed users' news reading preferences and behaviours. Analysis revealed three primary types of reader. We then implemented and deployed an Android news app that logs users' interactions with the app. We used the logs to train a classifier and showed that it is able to reliably recognise a user according to their reader type. Finally we evaluated alternative, adaptive user interfaces for each reader type. The evaluation demonstrates the differential benefit of the adaptation for different users of the news app and the feasibility of adaptive interfaces for news apps. Through the analysis of the experimental results, we can find that this algorithm has a good effect on hot event detection.

II. An Approach to News Event Detection and Tracking Based on Stream of Online News

Source: IEEE Xplore

Authors: Yajie Qi, Li Zhou, Huayou Si, Jian Wan, Ting Jin.

Websites: <https://ieeexplore.ieee.org/document/8048142>

About the Paper:

Once an event occurs, usually there are a large number of online news to be released. How to quickly and accurately detect the hot events from the huge amount of online news is the focus and hotspot. Event detection and tracking technology is as a key technology to solve this problem. In this paper, we propose an approach to detect hot events from the online news stream in a timely manner and track the hot events. Based on the idea of single-pass clustering algorithm, this approach addresses the weight of keywords and proposes a new method to calculate similarity among news to track event. Through the analysis of the experimental results, we can find that this algorithm has a good effect on hot event detection.

III. Following the Fed with a NewsTracker

Source: ResearchGate

Authors: Michael William McCracken

Websites:

https://www.researchgate.net/publication/227438253_Following_the_Fed_with_a_New_s_Tracker

About the Paper:

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. As news is increasingly accessed on smartphones and tablets, the need for personalising news app interactions is apparent.

IV. Android News App

Source: Research India Publications

Authors: Brijesh Joshi, Nehal Patel.

Websites: https://www.ripublication.com/ijaer18/ijaerv13n11_78.pdf

About the Paper:

As world's technology is rapidly growing, we have fast connection and network to instantly connect to other person. Day to day use in mobile, tablets and laptop is increasing, most of the people already have this facilities. In this fast and information oriented world we need to stay updated with every incidents and news too. This News app is android mobile application where user have access to latest news from 120+ newspapers from 50+ countries. The main focus of this application is to connect news articles from all around the world and deliver it to user as fast as possible in best visualize way.

V. Research on Topic Detection and Tracking for Online News Texts

Source: IEEE Xplore

Authors: Guixian Xu, Yueting Meng, Zhan Chen, Xiaoyu Qiu, Changzhi Wang, Haishen Yao.

Websites: <https://ieeexplore.ieee.org/document/8703401>

About the Paper:

With the rapid development of the Internet, the amount of data has grown exponentially. On the one hand, the accumulation of big data provides the basic support for artificial intelligence. On the other hand, in the face of such huge data information, how to extract the knowledge of interest from it has become a matter of general concern. Topic tracking can help people to explore the process of topic development from the huge and complex network texts information. By effectively organizing large-scale news documents, a method for the evolution of news topics over time is proposed in this paper to realize the tracking and evolution of topics in the news text set. First, the LDA (latent Dirichlet allocation) model is used to extract topics from news texts and the Gibbs Sampling method is used to speculate parameters. The topic mining using the K-means method is compared to highlight the advantages of using LDA for topic discovery. Second, the improved single-pass algorithm is used to track news topics. The JS (Jensen-Shannon) divergence is used to measure the topic similarity, and the time decay function is introduced to improve the similarity between topics with the similar time. Finally, the strength of the news topic and the content change of the topic in different time windows are analyzed. The experiments show that the proposed method can effectively detect and track the topic and clearly reflect the trend of topic evolution.