

News Tracker Application

INTRODUCTION

The way we consume news has shifted dramatically in the last decade and having a dedicated website is no longer enough. Users expect updates to be immediately available and accessible via multiple devices, and easy to share across their social media networks. News apps have also become increasingly important for users who want to avoid consuming news via social media and digest news from a reliable source. One of the most common information sharing method is via news and articles available both in physical and digital form. With genuine information helping to make humans a more evolved. There are many news apps available that can keep you abreast of the latest happenings. Lives are very busy these days to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day. Only read what you feel is relevant and save your time, The most useful news app for any target audience will depend on their specific needs and subjects of interest. A news application is a big interactive database that tells a news story, a news app can help each reader understand a story in a way that's personally meaningful to them. It can help a reader understand their personal connection to a broad national phenomenon, and help them attach what they know to what they don't know, and thereby encourage a deep understanding of abstract concepts. We tend to build news apps when we have a dataset or think we can acquire a dataset that is national in scope yet granular enough to expose meaningful details.

LITERATURE REVIEW

[1] Fake News Detection Using a Blend of Neural Networks: An Application of Deep Learning: Artificial intelligence, Convolutional neural networks (CNN), Recurrent neural networks (RNN), Word embedding, 2020.

Fake news and its consequences carry the potential of impacting different aspects of different entities, ranging from a citizen lifestyle to a country global relations, there are many related works for collecting and determining fake news, but no reliable system is commercially available. This study aims to propose a deep learning model which predicts the nature of an article when given as an input. It solely uses text processing and is insensitive to history and credibility of the author or the source. The proposed model which is the blend of convolutional neural network and recurrent neural networks architecture has achieved benchmark results in fake news prediction, with the utility of word embeddings complementing the model altogether.

ADVANTAGES: The networks is used to detect the fake news, One of the most common information sharing method is via news and articles available both in physical and digital form. With genuine information helping to make humans a more evolved. "Deep learning approaches for data analysis". we have to classify whether News is fake or real.

DISADVANTAGES: The detection of false information is an important issue in the field of Machine Learning and deep learning, Machine learning is a technology that allows you to create intelligent models, which are much more convenient than the traditional physical models. Our results show that these machine learning models can predict weather patterns that are accurate enough to compete with the traditional ones.

[2] TOPIC Detection and Tracking in News Application: Detecting, Tracking, Text Mining, Extract, Information, Unstructured, Agglomerative, Similarity, KNN Classifier Vector Space model(VSM),

2019.

Topic detection and tracking are used in text mining process. From data which are unstructured in text mining we extracts previously unknown and useful information. The main purpose of this paper is to identify and follow tasks occurred in different news sources. We are going to use agglomerative clustering based on average linkage for detecting the topics, calculate the similarity of topics using cosine similarity.

ADVANTAGES: This Application is used to detection and tracking the news, The main purpose of this paper is to identify and follow tasks occurred in different news sources. we identify the clusters that fall into same category. Text mining utilizes techniques from the field of data mining, combines methodologies from various other areas such as categorization, information retrieval, clustering, summarization, information extraction, computational linguistics, concept linkage and topic tracking.

DISADVANTAGES: This Further research is to implement the farthest distance to detect and tracking because of average distance measure for topic detection and K-nearest neighbour classifier for topic Tracking. As well as it makes the fewest assumptions of about terms, stories and efficient decisions surface for the tracking task. For future work we will detect and track broadcast news.

[3] Analysing and understanding news consumption patterns by tracking online user behaviour with a multimodal research design: Tracking, Text Mining, Eye tracking, Extract, Information, world embedding, IEEE,

2017.

Only recently scholars started to experiment with gathering real-world data of Web behaviour by monitoring a group of respondents. In this article we describe the set-up of ‘The News tracker’, a tool that primarily allowed us to analyse online news consumption of a group of young Dutch news users on their desktop and laptop computers. We demonstrate the workflow of the News tracker and how we designed the data collection and pre-processing phase. By reflecting on the technical, methodological, and analytical challenges we encountered, we illustrate the potential of online monitoring tools such as the News tracker.

ADVANTAGES: The News tracker is a custom-built system that collects Web activities of specified and authenticated users, cleans the data by removing non-relevant data, extracts the associated content, and stores this as a new data set to be used for analysis. To create the News tracker, we applied two out of several data mining techniques: Web usage mining and Web content mining . the News tracker to study how the consumption of news websites fits in the

daily surfing behaviour of university students. We tracked the Web behaviour of forty-two university students.

DISADVANTAGES: General and Conventional News websites are, e.g., visited during the whole day, while traffic to websites with Lifestyle news increases during the day. we would like to elaborate on the results we found when we analysed how our respondents navigated to news websites. Since our News tracker did not only register what sites people visited but also on which day and at what time, we manually analysed in which order each news website had been visited. This refers to the allegedly decreasing role of the homepage as means of generating traffic to websites, compared to social media platforms that are expected to increasingly generate Web traffic.

[4] Personalized News Recommendation using Classified Keywords to Capture User Preference: This paper aims to propose a new model, based on deep neural network, to analyse user preference for news recommender system. This paper was proposed in the year,

2018.

Recommender systems are becoming an essential part of smart services. When building a news recommender system, we should consider special features different from other recommender systems. Hot news topics are changing every moment, thus it is important to recommend right news at the right time. This paper aims to propose a new model, based on deep neural network, to analyse user preference for news recommender system. The model extracts interest keywords to characterize the user preference from the set of news articles read by that particular user in the past. The model utilizes characterizing features for news recommendation, and applies those to the keyword classification for user preference. For the keyword classification, we use deep neural network for online preference analysis, because adaptive learning is necessary to track changes of hot topics sensitively.

ADVANTAGE: Recommender systems are becoming an essential part of many mobile and web applications for smartphones and tablets. They generally aim to provide in-time, contextaware, personalized information services in order to increase product sales and user satisfaction.

DISADVANTAGE: The proposed model has supplemented chronic disadvantages of neural network model in learning and modelling, while having more accurate classification results.

[5] Implementing a Mobile Application News Tool for Disseminating Messages and Events of Al Bur Aimi University College : Environmental And Ecosystem pollution ,Online Training System, mobile application , November 2018.

The current mode of conveying any news or information to the staff and students in BUC are emails and circular. One of the important tools in the educational domain in this generation is mobile as shown in the result of gulf university study. It states that 99% of the student has their own mobiles and utilize it for learning . Moreover, BUC also incorporated smart board into their teaching and learning process. Now-a-days notification systems are widely used in telecommunication devices. It is becoming a very important and accepted trend in this

generation. The student's portals and students timetables and the limitation of BUC system to change in different environments is overcome in research[8]. In this, the students portal and available courses for each semesters that the student need to know was implemented in the application. Based on the literature review, preliminary finding shows that there is no technology for notifications process of news in BUC. In this research BUC portal is also accessible along with the news alerts and notification

ADVANTAGE: A specific amount of data can be collected from the application to understand customers' buying habits. It also helps get insights into the pain points that need to be rectified to boost productivity and improve operational activities.

DISADVANTAGE: Another drawback of mobile apps is that it is challenging to index the application's content by search engines because they are not fully optimized to boost organic traffic. For this, creating a marketing strategy is essential because it includes your ideal customers, business goals, and the complete blueprint to grow your business.

[6] THE INNOVATIVE APPLICATION FOR NEWS MANAGEMENT SYSTEM : Comment section , Methodology, Output screens,

2020.

This paper aimed at developing an online news management system that is of information to either a college. The news management system is an internet based application that can be accessed throughout the college. There are features like email notifications, cancellation of posts, updating posts, comments section etc in this system. Online news management system provides a simple interface for maintenance of college information. The creation and management of accurate, up-to-date information regarding to the college. It also facilitate us explore all the activities happening in the college, different reports and queries can be generated based on vast options related to sports, course, events, NCC, NSS, workshops, placements and even for the entire college. The main objective for developing this project is provide all the functionality related to latest news and it tracks all the information about the college so all the news will be managed by the admin. Admin can see the list of all the entertainment news and filter it according to the user. This project can easily be configured on windows operating system for running this project on windows system, you will have to install app on your system.

ADVANTAGE: Work on an organization's functional proficiency, increase the value of existing items, cause advancement and new item improvement, and help the executives to improve decisions.

DISADVANTAGE: The main disadvantage OF Considering just subjective factors and disregards non-subjective variables like confidence of labour, demeanour of specialist and so on.

**[7] RESEARCH ON DEVELOPMENT STRATEGY OF NEWS APP
UNDER THE BACKGROUND OF ARTIFICIAL INTELLIGENCE : IOP
Conference Series: Materials Science and Engineering, Volume 806, Issue 1,**

2020.

The proportion of Internet users using mobile phones to access the Internet reached 99.1%, an increase of 0.5 percentage points from the end of 2018[1]. Internet penetration rate exceeds 60%, and mobile Internet use continues to deepen. The above data fully proves that with the advent of the smartphone era and the continuous improvement of communication technology, the mobile Internet era is the general trend. In the media field, because a large number of netizens have switched from PC to mobile clients, news media have aimed at the mobile network market and started to develop news Application (referred to as App. In the market competition, traditional media Apps mainly meet different user needs with their rich news resources and high-quality original content. According to data analysis, among information App users, high-income groups prefer traditional media Apps, and high-income groups (average monthly income of more than 10,000 yuan) have a high proportion.

ADVANTAGE: One of the biggest advantages of Artificial Intelligence is that it can significantly reduce errors and increase accuracy and precision. The decisions taken by AI in every step is decided by information previously gathered and a certain set of algorithms. When programmed properly, these errors can be reduced to null.

DISADVANTAGE: A big disadvantage of AI is that it cannot learn to think outside the box. AI is capable of learning over time with pre-fed data and past experiences, but cannot be creative in its approach. A classic example is the bot Quill who can write Forbes earning reports. These reports only contain data and facts already provided to the bot. Although it is impressive that a bot can write an article on its own, it lacks the human touch present in other Forbes articles.

[8] A System for Customized News Delivery from Video Archive: The model facilitates representation of information clustering, object stratification, concept hierarchy,

06 June 2019 ,

Video is a powerful medium for disseminating news as information. Like any other information, techniques are required to help search and locate interesting video content. In this paper we consider the construction of a system to automatically assemble an individualized news video when a sufficient volume of video is available for composition. We propose a vocabulary and representation for composition of news video. A model is presented that is used to store metadata and customize newscasts. The model facilitates representation of information clustering, object stratification, concept hierarchy, temporal ordering, and news ‘tours.’ The proposed customized news delivery system attempts to achieve a level of composition found in existing television news delivery.

ADVANTAGE: In this paper they have defined concepts and techniques which help in information filtering, retrieval, and automatic composition of a news video. They have

proposed a complete system for news information retrieval. This involves formulating the concepts on which information retrieval and composition is based.

DISADVANTAGE: The current system does not identify segments automatically. However, we are actively pursuing this goal. To achieve this, it is required annotation of collected/ digitized news video. For this purpose they have a facility to digitize analog video data as MPEG in real-time.

[9] NEWS STORY TRACKER: Incremental visual text analytics of news story development, University of Konstanz, Konstanz, Germany,

2013.

Understanding temporal development of unstructured and semi-structured text data streams is becoming increasingly important in many application areas, such as journalism, politics, or business intelligence. At the same time, sources of textual data, such as online news providers, are creating content in constantly growing amounts. While many automated and visual solutions that deal with the snapshots of information space already exist, few interactive systems can provide a user-friendly environment in which temporal context of these growing data collections can be successfully analyzed.

ADVANTAGES: In this generation these kinds of app help the person to get in update with the latest news available. and people does not wait for news to be released the next day in the papers they just open the app to stay in update with the and these apps help with the persons suggestions and help them with the news.

DISADVANTAGES: Thousand of news comes each and everyday replacing the old once the difficulty in this is to replace the old once and not let the readers to get confused with old news and to keep the fake news away from spreading via the app.

[10] Breaking News Detection and Tracking in Twitter: The tasks we focus are first story detection, cluster detection, and tracking,

2019.

Twitter is a social networking service that allows users to share information, which is described by Twitter as Brevity contents are in short length and simultaneousness contents are updated frequently. Twitter has transformed the way people convey information especially in the areas of news. In June 2009, Twitter has played an important role in delivering user-generated contents from the Iranian citizen in the Iran election. We see that people with technology played a role of journalists in the situation where news reporting in a conventional way has been made difficult. Anyone who is not associated to the media industry can also deliver news. Thus, Twitter presents a highly effective way to discover what is happening around the world.

ADVANTAGES: Twitter is the one most popular social network to speed trending news. it is the most widely used socials used by millions of people

DISADVANTAGES: The main disadvantage in this media is the short news in this twitter is the best news but short news does not provide all the details to the news

[11] The local accountability journalism tracker: Digital Humanities, Journalism Studies, Social Justice, The Local Accountability Journalism Tracker,

2021.

The Local Accountability Journalism Tracker curates local news stories in the United States that resulted in substantial accountability or change. Published on a Tumblr website, each local news story includes a blurb detailing what the story was about as well as the accountability or change that followed the story's publication. News stories must meet the following criteria for inclusion.

ADVANTAGES:

- The Local Accountability Journalism Tracker curates local news stories in the United States that resulted in substantial accountability or change.
- The Local Accountability Journalism Tracker was published during a time of uncertainty, when COVID-19 cases continue to ravage and news publishers continue to suffer from an economic crisis exacerbated by the pandemic.
- The app offers a variety of components, including notes, databases, Kanban boards, wikis, calendars, and reminders.
- The stories discussed in this project are also diverse in geographic locations and subject areas.

DISADVANTAGES: This only publishes the news which has already been published by a news outlet it does not publish a news as soon as it has been out. Its slow at publishing the news

[12] Trends In Data Journalism,

2011.

The aim of this report is to produce a short overview of what's happening in the field of open data and data journalism in the US and Europe. This is a continuation on the Next Media report, Open Data in Finland Lehtonen, which dealt with the perspectives of some of the key actors on the future of open data in Finland. Data journalism is finding its way into newsrooms. Data journalism has become an integral part of several news organisations' online strategies. They see data journalism as a part of a transition that's moving them from being a news-and-information site toward a more interactive news-and-information platform. In their new role, news organisations want to provide their readers with ways to interact with the content, and refine it further, and data journalism provides an opportunity for this. Journalists see data journalism as a way to find hidden stories—stories that wouldn't otherwise get told. News organisations hope to serve public interest better with data journalism and, thus, have a positive impact on society. Furthermore, data journalism is perceived as a way to increase transparency in journalistic processes. This transparency potentially increases trust in journalism and the media, given that the sources of information in stories are open for anybody to access. Data journalism adds new requirements to the journalist's profession. Now these individuals need skills for data analysis, web development and community management. However, the most

important factor for successful data journalism is a journalistic sense of what is relevant and interesting, and of what questions need to be asked.

ADVANTAGE: According to the interviews conducted for this study, data journalism is perceived to be a tool for producing better journalism with the help of statistical methods, visualisation and interactive means of presenting information.

DISADVANTAGE: News organisations are looking for sustainable ways to support data journalism, but viable business models have yet to be discovered. News organisations have visions of becoming number-one data stores and of adding the provision of data analysis to their oeuvre of paid service offerings. The most likely future scenario will see news organisations existing in a state of symbiosis.

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