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Advanced News Archiving System with Machine Learning-Driven Web Scraping and AI-Powered Summarization Using T5, Pegasus, BERT and BART Architectures Check for updates

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Introduction

The news plays a crucial role in keeping individuals updated about the latest events in our rapidly changing world, and staying informed is of the highest significance. The information presented in the many complicated news stories frequently posted on the internet can be difficult for even the most committed readers to fully understand (Suleiman et al., 2020;

Abstract: Data plays a crucial role in the contemporary era of technology, as it is a vital element in the publication of news on the internet or a website. Nevertheless, understanding long reports in order to fully comprehend events can be a challenging endeavor, frequently leading to subjective judgments. The application's architecture integrates the categorization of news stories by day, resulting in a well-organized and readily accessible archive. The application employs the web scraping method, which entails pulling pertinent news articles from numerous internet sources. The application employed sophisticated summarizing libraries, including the BERT, BART, T5 model and Google Pegasus, to condense the information into a succinct and comprehensible style. The T5 model performs exceptionally well in text summarization and other natural language processing tasks because of its text-to-text structure; it is also a very customizable language model. Google Pegasus, an expert in abstractive summarizing, uses self-attention mechanisms and rigorous pre-training to generate high-quality, concise news summaries. To summarize, these are the most important parts of our app's process. When it comes to collecting, storing, and summarizing news articles, the system has you covered. In addition, it will offer a straightforward design that makes it simple to browse past news stories and their summaries.

> Asmitha et al., 2024; Dharrao et al., 2024). Readers may be prone to biased judgments or a lack of context if lengthy papers with complicated facts are difficult to understand. So, with our program's intuitive interface, reading news stories is a breeze.

> Our software provides a more user-friendly way to read and understand news articles, helping people deal with overwhelming information. To save users the

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trouble of reading long reports, the system compiles news stories from multiple websites and summarizes them in a nutshell. With the help of cutting-edge methods like web scraping, the application swiftly obtains relevant news content so that users may enjoy a personalized selection of articles.

There are a lot of systems out there that disseminate news, however, some of these more conventional platforms may have complicated interfaces and demand subscription fees to access premium services. There may be times when websites don't give enough or relevant information. Not having an organized archive also makes it hard to follow previous news stories and navigate the site, which is bad for users. However, our software lets users choose when they want news stories to be retrieved, shows them a full list of articles with links, headings, and sources, lets them see summary versions of the items they've chosen, and lets them search using headings or sources.

Our new website is here to help close this gap. Allow me to explain it to you: Our technology automatically prompts customers to specify their desired date the moment they land. The first step of our system is to collect news articles from trustworthy online sources using web scraping techniques. After that, high-tech summarizing tools are employed to reduce articles to brief summaries, such as T5 Model and Google Pegasus Model. By utilizing an established archive system, our program is designed to arrange news articles according to date, making them easy to retrieve and refer to in the future. Features for perusing old news and summaries are built into the platform and an easy-to-navigate UI is created for smooth interaction (Zhang et al., 2020; Haque et al., 2022; Dharrao et al., 2023; Gite et al., 2023; Wang et al., 2023).

Our platform's development has made strategic use of a wide range of tools and techniques to provide a pleasant user experience and hassle-free operation. The backbone of our technical architecture is built on strong technologies like Python for processing data and scraping websites and HTML, CSS, and JavaScript for building the front end. Beautiful Soup for web scraping, MongoDB Cluster for database administration, and FastAPI for quick backend development are crucial components that our platform combines. We guarantee top-notch speed and scalability with the help of GPU technology, more especially T4 double-sided.

Building an efficient tool for news summaries is our principal objective in writing this paper. The system will streamline the process of gathering and summarizing news articles from reputable web sources, making it easier to acquire pertinent information. Summaries should be brief (less than 150 characters) for the benefit of users, and we strive to accomplish this goal by summarizing at least 70% of daily news pieces. Daily, we will mechanically scrape around 30-35 articles from different sources to compile our news articles. Utilizing the summarizing models, our program generated summaries that saved users time and decreased the likelihood of biased judgments caused by an absence of sufficient information. Not only does it summarize news stories, but it also has an extensive archive system that sorts them by day for simple retrieval and future reference. Staying informed about the latest happenings has become more convenient than ever with our easily navigable design. We may easily navigate through archived news stories and their synopses.

Literature Survey

Raffel et al. (2020) introduced an extremely successful natural language processing technique that is based on a unified text-to-text transformer paradigm. The effectiveness of their strategy was demonstrated by rigorous testing and evaluations, therefore elevating the standard for the potential of transfer learning. Using our collection of news items, we upgraded pre-trained models in order to render them more effective at summarizing.

Zhang et al. (2020) proposed PEGASUS, an approach that pre-trains with extracted gap sentences to enhance summarization. We can improve the user experience by providing high-quality summaries and efficiently processing lots of news articles using this method.

The capabilities Mohamed et al. (2020) suggested for news synthesis and summary could be quite helpful. During their examination of several text summarization techniques, they always emphasized the necessity of swiftly retrieving data from huge datasets. Their innovative method of picking and condensing news stories from different sources on the internet was developed by integrating cutting-edge web scraping techniques with sharp summary algorithms.

Mastropaolo et al. (2021) developed the Text-To-Text Transfer Transformer (T5) to enhance coding methods. We put T5 through its paces to see how well it handled various forms of code. You can trust the T5-type transformer. Changing the text-to-text model T5 to meet different natural language processing objectives demonstrates its versatility.

Widyassari et al. (2022), after reading a lot of research on the subject, looked into the methods for automatically summarizing text. In fact, they looked at how well a number of different methods worked, some of which

were more traditional and some of which were more new. With the help of new technologies like phrase extraction and semantic analysis, we expect to refine our summarization process better and get better results.

The research conducted by Khilji et al. (2021) emphasized the significance of abstract writing in summarizing methodologies and evaluation instruments. In order to improve the uniformity and excellence of the summaries, they engaged in an examination of several models and methodologies. We utilized evaluation techniques gathered from their study to reduce news stories and evaluate our summarizing program.

Abodayeh et al. (2023) conducted a web scraping operation utilising BeautifulSoup, a tool for analysing data sets. A potential method for the researchers to achieve their analytical goals by collecting data from various online sources was the exploration of web for machine learning to recognize sentences. On a given dataset, the system can translate hand movements into phrases with 80% accuracy. Real-time phase synthesis using powerful machine learning and natural language processing is possible with ChatGPT integrated to improve sign language-non-user communication.

Wolf et al. (2020) presented modern techniques for NLP using the Transformer model. Several natural language processing tasks have been significantly improved by these models' use of self-attention processes, which enable a more precise comprehension of textual context. Several models that have done exceptionally well on several NLP benchmarks are part of the Transformer architecture. These models are Pegasus, GPT, BERT, and T5. To ensure optimal performance, we exhaustively evaluated and validated the transformer-based models used in our application.



Figure 1. System Architecture.

scraping techniques. Our technological capabilities enabled us to rapidly obtain news stories, therefore facilitating the process of summarizing and assessing them. The ability to access news articles from a multitude of online sources was enhanced by this proficiency.

Deaf and hard-of-hearing people benefit greatly from sign language, which uses sophisticated hand and body gestures. Sekhar et al. (2024) use a Random Forest model, Media Pipe for gesture sensing, with TensorFlow Reddit and Hacker News were among the resources used by Aniche et al. (2018) to stay abreast of technological developments. Findings from interviews and analyses of these groups point to their contributions to knowledge sharing and involvement and their struggles with moderation. Improvements to developer habits and tool design, as well as research on developer communities, are made possible by these discoveries.



Figure 2. Proposed Work Flow.

One website that rapidly gathers and summarizes news headlines from all across the globe is NewsOne, according to Sundaramoorthy et al. (2017). The software collects news stories from many sources (web scraping and RSS feeds) and sorts them into various categories (e.g., Technology, Health, and Business). Readers can choose news pieces to read based on their interests using this classification system. Users are not charged for using the site, which strives for the fastest news delivery possible. There are rumors that the app is getting regular updates that will make the material more accessible and encourage more user participation.

Methodology

To develop a user-friendly application that simplifies access to news information and summarizes news content efficiently, we have to perform a few important steps:

Figure 1 describes the web application framework, detailing the flow of data and functionalities. At the front DOI: https://doi.org/10.52756/ijerr.2024.v46.017

end, React Router facilitates the creation of a dynamic user interface, enabling seamless navigation within the application. Users interact with the system through the internet, accessing its features and functionalities as described by Keerthana et al. (2024). Moving to the backend, the system utilizes various components to gather and process data. Google API grants access to Google Services, while web scraping, facilitated by Beautiful Soup, extracts data from websites. An API fetches news articles, potentially from multiple sources. The T5 Model, a machine learning model capable of tasks like text summarization, enhances data processing. Finally, data is stored and managed in a Mongo DB Cluster database, ensuring efficient data storage and retrieval. So, In this way, our website or system works.

Figure 2 describes the paper flow of our application. Our system extracts news articles from various sources through a web scraping mechanism. Upon Scraping, our system creates a web page to present the extracted





Pre-training



information. Then, it organizes the fetched news articles and showcases them on the previously created web page. We have particularly used the T5 model to train on a dataset. T5 is a text-to-text generative model widely used for summarization and question-answering tasks. The trained T5 model is integrated into the web page to facilitate summarization. Finally, our system displays summaries of the news articles on the userfriendly web page generated by the integrated T5 model.

Unlabeled Sentence A and B Pair

Figure 3 describes the t5 model flow of our application. The Flow T5 model involves data collection, model initialization, training, evaluation, and deployment stages, resulting in a user-friendly system for effectively summarizing news articles.

BERT – Bidirectional Encoder Representations Form Transformer Machine Learning Algorithm

Google developed a ground-breaking language representation model called BERT, which is especially efficient at interpreting the context of words in a sentence. It uses transformer architecture with a bidirectional approach, which means that examining the words that come before and after a word takes into account the whole context. Because of these features. BERT is very useful for tasks like named entity

recognition, sentiment analysis, and questionanswering. It can also capture complex relationships and meanings inside text. To make sure that the most important elements are emphasized in the summaries, you can use BERT in the context of your news summarizing application to extract important sentences and pertinent information from lengthy articles. The application can improve its comprehension and processing of the data by integrating BERT.

Fine-Tuning

BERT consists of two steps: fine-tuning and pretraining. The model is trained on unlabelled data across several pre-training tasks during pre-training. The pretrained parameters are used to initialize the BERT model for fine-tuning, and labelled data from the downstream jobs is used to adjust each and every parameter. Despite being started with identical pre-trained parameters, each downstream task has its own fine-tuned models.

BART **Bidirectional** and **Auto-Regressive Transformer Machine Learning Algorithm:**

BART is an effective model that combines the best features of autoregressive and bidirectional transformers, especially for text production tasks. It works especially effectively for jobs involving translation, summarization, and other aspects of natural language processing. In order to teach the model to create coherent and fluid text from





Incomplete input, BART corrupts text and then trains it to reconstruct it. This makes BART a great option for your application since it can generate outstanding abstractive summaries that capture the essential points of news stories in a readable manner. The program may produce succinct, context-aware summaries that users find engaging by integrating BART into your summarization process. This guarantees that users get the most pertinent information from the news stories they are interested in.

Results and Discussion

Deploying our paper on port 10000 and using MongoDB database makes hosting our frontend and backend components easier. This setup helped us manage everything smoothly, from the React.js frontend to the Node.js backend, simplifying database management.

Figure 6 describes the home page of our website. Here you will find the scrolling news articles on a specific date and you will also find a calendar option.

The Figure 7 shows the calendar view of a news summarization archive. The calendar is used to navigate you and access archived summaries. As you can see, a "Choose the Date" option at the top of the calendar will likely allow users to select a specific date to view archived summaries.

Figure 8 describes the collection of news articles on a particular day. The user selects a specific date and a list of articles appears on the screen which contains a news headline, date and time, relevant links and summarize buttons. The archive also allows users to search for news articles or sources by entering keywords in the search bar.

Figure 9 displays the summary of the news articles. The model processes the news articles and presents the summary for user consumption.

The Figure 10 and Figure 11 displays the model evaluation metrics. We got these results ROUGE-1: Achieving an F-score of approximately 0.44, indicating 44% unigram overlap with reference summaries. ROUGE-2: F-score of approximately 0.23 indicates moderate bigram overlap. Important for coherence and fluency in summaries. ROUGE-L: F-score around 0.41, indicating common subsequence between summaries. Important for news summarization's coherence and key information.

News Summarization Archive				
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Welcome to News Summarization Archive				

Figure 6. News Summarization Home Page.



Figure 7. News Archive Calendar.



Figure 8. News Archive.

	News Summarization Archive				
	News Headline : Joe Biden clinches 2024 Democratic nomination - Hindustan Times Summary -: The Democratic National Convention in Chicago in August will serve as the tenore for making the nomination official. The would-be Democratic presidential candidate has to obtain the majority of the delegates voted during the convention. Meanwhile, the leading Republican caucus.				
	← Back Talendar Source : Hindustan Times PArticle Link OMar 13, 2024				

Figure 9. News Summary.









Metric	F- Score	Description
ROUGE - 1	0.44	44% unigram overlap with reference summaries
ROUGE – 2	0.23	Moderate bigram overlap; important for coherence and fluency
ROUGE – L	0.41	Common subsequence, important for coherence and key
		information in news summarization





Conclusion

In our effort to make news reading quicker and more efficient, we utilised the T5 model to generate summarised news articles. This way, users can get the gist of the news without having to read the entire article, saving time. However, we encountered challenges when integrating the T5 model with our user interface (UI). This made it difficult for users to access the summarised articles seamlessly. To address this, we worked on improving the integration process to ensure a smoother user experience. Despite the hurdles, our goal remains clear: to provide users with a convenient way to stay informed by quickly scanning through summarised news articles. With continued efforts, we aim to overcome these challenges and offer a user-friendly platform where everyone can easily access and benefit from summarised news content.

Conflicts of Interest

According to the authors, there is no conflict of interest.

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