



SOEN 6841: Software Project Maintenance

Topic: Automated News Summariser

Project Group: 13

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Table of Contents

Automated New Summarizer	2
1. Project Identification.....	2
Problem/Opportunity statement:.....	2
Stakeholder Analysis:.....	2
Relevance to Software Solution	5
2. Market Analysis.....	7
Target Audience Identification	7
Competitor Analysis.....	8
Business Values	14

Automated New Summarizer

1. Project Identification

- **Problem/Opportunity statement:**

- Clear articulation of the identified problem or opportunity

In today's fast-paced world, we're constantly bombarded with news from all kinds of sources—social media, websites, and digital platforms. With so much information coming at us, it can be overwhelming to keep up. Finding the time to read long articles is tough, and it's not always easy to figure out what's trustworthy and what's not.

Fast-paced industries like finance, healthcare, and education rely heavily on quick and accurate information to make important decisions. For professionals, students, and decision-makers, manually going through large amounts of material is simply not practical. For example, a financial analyst could spend hours reading multiple reports just to extract the key insights, which can be both time-consuming and inefficient. Concise description of its significance in the chosen domain

With the growing demand for personalized and time-efficient ways to consume news, the media and IT industries are rapidly evolving. Research highlights some key trends:

- 72% of people feel overwhelmed by the constant flow of news.
- 60% of professionals prefer quick, bite-sized snippets over full-length articles.
- Summarized news makes important information accessible to non-native speakers and individuals with lower reading levels.
- Quick access to condensed news can improve decision-making in fields like finance. For example, traders can react faster to market changes when they rely on realtime summaries.

Given that false information spreads six times faster than the truth, it's crucial to focus on delivering verified, accurate news. An Automated News Summarizer would not only help users make more informed decisions but also make news more accessible to diverse audiences, allowing them to quickly grasp essential content.

- **Stakeholder Analysis:**

- Identification of key stakeholders affected by the problem or benefiting from the opportunity

Stakeholder	Description	Role
End Users	Individuals who consume news regularly through digital platforms.	Directly benefit from the tool's AI-powered summaries, saving time and ensuring accuracy.
News Publishers & Journalists	Media organizations, news outlets, and individual journalists.	Their content is summarized and presented to users, potentially increasing discoverability.
Advertisers	Companies relying on digital platforms to promote their products or services.	Benefiting from increased user engagement and ad placement in the summarized content.
Developers & AI Specialists	Engineers and specialists responsible for developing and improving the AI models.	Ensure the AI operates effectively and improves over time, focusing on summarization quality.
Regulatory Bodies	Government agencies and regulators overseeing content, data privacy, and ethics.	Ensure that the tool adheres to privacy laws, content guidelines, and ethical AI practices.
Investors/Business Stakeholders	Individuals or companies investing in the development and scaling of the tool.	Interested in the platform's profitability, growth, and market penetration.

- Brief overview of their interests and concerns

Stakeholder	Interests	Concerns
End Users	Convenience, timesaving, trustworthiness, and personalized news summaries.	Accuracy, customization, and potential loss of context in summaries.
News Publishers & Journalists	Content visibility, revenue generation, increased engagement with full articles.	Traffic reduction to full articles, misrepresentation of content leading to brand image issues.
Advertisers	Increased exposure, effective ad targeting.	Ad placement control, reduced user engagement with full articles affecting ad interactions.
Developers & AI Specialists	Refined AI models, better summarization quality, scalability, and ethical AI implementation.	Ensuring summarization accuracy, reliability, ethical concerns related to AI usage (e.g., bias, misinformation).
Regulatory Bodies	Compliance with regulations, ethical AI use,	Data privacy concerns, bias, misinformation, and

	privacy protection, and unbiased content.	adherence to content and copyright regulations.
Investors/Business Stakeholders	Profitability, long-term growth, scalability, and potential for international market expansion.	Monetization model concerns, competition from established players, market adoption, and user retention.

- Challenging Component: Presented insights in a table format to visualize stakeholder relationships and concerns.

Stakeholder Analysis Table

Stakeholder	Role	Concerns	Priority	Relationship with Other Stakeholders
End Users	Use the summarized news content	Accuracy, relevance, timeliness, readability	High	Directly impacted by the quality of summarization
News Providers	Provide the news content	Maintaining brand, proper attribution, content integrity	Medium	Provide content to be summarized, may have concerns about misrepresentation
Developers	Build and maintain the system	System reliability, performance, ease of use, scalability	High	Work closely with technical and business stakeholders
Project Manager	Oversee the project's progress	Timely delivery, resource allocation, risk management	High	Coordinates between stakeholders to ensure project success
Investors/Sponsors	Fund the project	Return on investment, marketability, user engagement	High	Impact the project's direction and funding
Regulatory Bodies	Oversee legal compliance	Data privacy, intellectual property, accuracy of summaries	Low	Influence how content is handled and shared
Content Curators	Ensure news content is accurate	Accuracy of summaries, ethical considerations	Medium	Provide oversight on the content quality

Tech Support Team	Provide user support and maintenance	Troubleshooting, system updates, user queries	Low	Respond to issues raised by end users or the developers
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- Relevance to Software Solution**

Explanation of how the problem or opportunity can be addressed through software development

In today's fast-paced world, getting accurate, relevant, and concise news can be challenging due to time constraints, biased reporting, and information overload. The Automated News Summarizer is designed to solve these problems using the latest Natural Language Processing (NLP) and Artificial Intelligence (AI) technologies.

With AI-driven summarization, users can quickly grasp the key points from lengthy articles without missing out on important information. The built-in fact-checking and bias detection ensure that the news is not only brief but also reliable and impartial. Real-time updates keep users informed instantly, sparing them the hassle of sifting through excessive content. Plus, the software supports multiple languages, allowing people from different regions to access global news in their preferred language.

For those who require tailored news, such as politicians, academics, or business professionals, the customizable topic filtering feature allows them to focus on specific areas of interest. The ability to listen to audio summaries makes it easy for users to stay updated on the go, providing a more hands-free, convenient experience.

Ultimately, the Automated News Summarizer addresses the challenge of information overload, delivering news that is trustworthy, relevant, and easy to digest. Initial thoughts on the scope of the software solution (15 points).

The scope of the Automated News Summarizer encompasses several key features aimed at addressing both the demands for news summarization and the need for reliability in news sources:

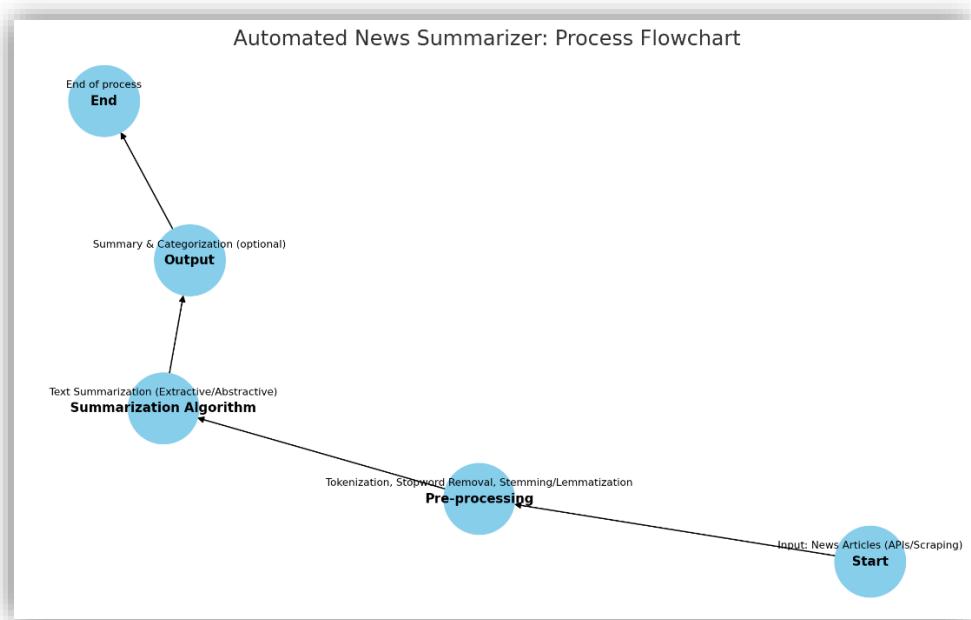
Artificial intelligence-powered summarization will cut down on the amount of time users spend reading lengthy news items by highlighting the most crucial details and presenting them in brief summaries.

- a. **Real-Time Updates:** The program will notify users of breaking news as soon as it happens by providing news updates.
- b. **Bias Detection:** The software highlights and detects possible bias in news stories using AI algorithms, empowering consumers to decide on the reliability of the news.
- c. **Fact-Checking:** To guarantee that consumers are receiving reliable information, the system will incorporate fact-checking algorithms to verify news assertions.
- d. **Multilingual Support:** The program will provide a variety of language options, enabling users from various geographical locations to access and comprehend news in their native tongues, considering the global character of news.
- e. **Custom Topic Filtering:** This feature will increase user engagement and relevance by allowing users to tailor the news feed to their interests, such as technology, business, politics, or entertainment.

- f. **Audio Summaries:** This hands-free function, which is helpful for users with little time or who are constantly on the go, turns news summaries into audio.
- g. **User Personalization:** Using user preferences, behaviour, and location, the program will provide AI-driven personalization to modify news feeds.
- h. **Membership Plans:** The program will offer both free and paid membership plans, with premium material, more fact-checking, and comprehensive summarizing among its more sophisticated capabilities.

To facilitate user involvement, the program will feature a clear, intuitive design that makes it simple to access summaries, real-time updates, and customized news preferences. A variety of consumers will be able to access it thanks to integration with PC and mobile platforms. For effective scalability, real-time data processing, and quick updates, the solution's backend will be dependent on cloud-based services.

- o **Challenging Component:** Include a visual (e.g., mind map, flowchart) showing initial thoughts on how the software will solve the problem.



1. Start with Input:

News Articles: Show how articles will be collected (e.g., APIs, scraping).

2. Processing Stage:

Pre-processing: Incorporate procedures like as stemming/lemmatization, tokenization, and stopword elimination.

Algorithm for Text summarizing: Apply either abstractive or extractive summarizing strategies.

3. Output:

Summary: The generated summary can be displayed or exported in text format.

2. Market Analysis

- **Target Audience Identification**

- Target Audience for the Software Solution

The primary target audience is defined as: A software program called the Automated News Summarizer is designed for news consumers who need news updates that are clear, dependable, and customized. The following are the main target audience members:

- i. **Busy Professionals:** People with hard occupations, executives, or those working in corporate settings who must keep up with world events but lack the time for in-depth reading. They are looking for brief, pertinent news summaries.
 - ii. **Scholars and Students:** Scholars and students who need quick access to condensed news for scholarly purposes or to keep current in their fields of study without having to hunt through several sources.
 - iii. **Tech-Savvy People:** Younger populations (18–35 years old) seeking for novel ways to consume news who choose automated, AI-powered solutions for content curation.
 - iv. **Multilingual and International Users:** People who need news summaries in several languages and come from a variety of linguistic backgrounds.

- Demographic and Psychographic Characteristics of the Target Audience

- **Demographic characteristics**

Characteristic	Details
Age	Those between the ages of 18 and 35 include tech enthusiasts, college students, and young professionals who are accustomed to new technology and seeking effective ways to consume news. They prioritize accessibility, accuracy, and speed. 35–50 years: Executives, mid-career workers, and busy professionals who require thorough, fact-checked summaries but lack the time for extensive news items. Older professionals and people over 50 who seek straightforward, trustworthy news—often with linguistic assistance—to keep up with world events.
Gender	Male and female users are equally distributed across age categories in the target audience. Equally, men and women want easy access to reliable, succinct news reports.
Income	Middle-class to upper-class individuals who are prepared to spend money on premium features like fact-checking, multilingual support, and sophisticated AI-powered summary. These consumers respect their time and are willing to pay for precise, well-curated, and high-quality material.
Location	In cities with mobile devices and high-speed internet, mostly. Both English-speaking markets and multilingual areas (like Europe and Asia) where news material is received in numerous languages are the target audience. For consumers who prefer to get foreign news in their own tongue, the solution's multilingual support is essential.

▪ Psychographic Characteristics

Characteristic	Details
Time-Conscious	There are those that want to consume news faster. These people like brief, easy-to-read, and precise news briefs that let them keep informed without wasting a lot of time. In order to meet this need, the AI-powered summarizing feature shortens the content while keeping important details.
Tech Enthusiasts	People who are enthusiastic about cutting-edge technology, artificial intelligence (AI), and natural language processing (NLP). These people are aware of the potential of AI-powered tools like the Automated News Summarizer and are interested in learning how technology might improve their daily activities, including how they consume news.
Information-Seeking	Individuals that proactively look for news that fits their requirements and interests. To make sure they get current, pertinent news and to cut out unnecessary stuff and information overload, they will probably make advantage of the real-time updates and custom subject filtering tools. The ability to obtain international news in their preferred language may also be valuable to these consumers.
Concerned with News Credibility	The number of people who are worried about the objectivity and correctness of news sources is increasing. Fact-checking and bias detection tools are highly valued by these people, who look for reliable, impartial, and validated information. The Automated News Summarizer's bias identification and fact-checking capabilities immediately meet this demand, guaranteeing the reliability of the information users take in.
Global Mindset	Users who require news from around the globe, particularly in a variety of languages. For their own education or career advancement, they are eager to learn about other viewpoints. These users can get news material in a way that meets their needs, reflecting a variety of global perspectives, thanks to the solution's multilingual support.

Connections Between Target Audience and Software Solution

- The software's AI-driven summary and real-time updates, which accommodate their hectic schedules and enable them to stay informed while saving time, are valued by young professionals and college students (18–35 years old).
- The automatic news summary and fact-checking capabilities will help middle-aged professionals (35–50 years old) who might have time restrictions by allowing them to swiftly access important information without having to read lengthy pieces. Additionally, these people are more likely to value multilingual assistance in accessing international news.
- Those over 50 who value dependability and simplicity will be attracted to the features that identify bias and provide clear, succinct descriptions. They will also be drawn to the solution's capacity to provide dependable, easily assimilated material in a variety of languages, especially when it comes to obtaining international news in the language they are most familiar with.
- Because they perceive the software as a tool that provides them with the newest technology developments while streamlining and personalizing their news intake, tech aficionados are likely to be drawn to the AI-powered NLP capabilities.
- Custom subject filtering and multilingual support allow information-seeking consumers to customize their news consumption experience, guaranteeing they only view timely and pertinent content in their preferred language. The fact-checking and bias detection features are crucial for users who are worried about the reliability of news since they enable them to

consume news from reliable, carefully screened sources, assisting them in avoiding false information and biased narratives.

- Users with a global perspective will gain from the AI-driven summary in many languages, which guarantees that they remain up to date on global happenings regardless of their location.

- **Competitor Analysis**

- Identification and Analysis of Competitors Offering Similar Solutions

Several well-known companies in the news gathering and summarizing space compete with the Automated News Summarizer. These rivals have diverse products, target markets, and solutions, and they all employ various approaches to satisfy customer demands. A thorough examination of the main rivals is provided below, looking at their target markets, business strategies, and methods for resolving issues with news consumption.

- a. **Google News**

Business Model: A free, ad-supported service with a broad audience that is integrated with Google Search and Discover.

Target Audience: A wide range of users, including tech-savvy people looking for aggregated news and casual readers.

Method: Combines news from several sources and ranks it according to user interest and relevancy. requires readers to read entire articles since it lacks AI-powered summarization, bias detection, and fact-checking.

- b. **Inshorts**

Business approach: Concise news summaries are offered for free with an ad-supported approach.

Young workers, students, and those with hectic schedules looking for easily assimilated news are the target audience.

Method: provides 60-word summaries for quick updates, but it is devoid of AI-powered capabilities such as fact-checking, bias detection, language support, and customized summaries.

- c. **News360**

Business Model: News360 uses AI and machine learning algorithms to provide individualized news feeds, and it offers both free and paid subscription alternatives. In its free edition, advertisements are also supported.

The platform's target audience consists of general users who want a more in-depth experience with customized updates and who are looking for personalized news material. People who like a more in-depth, algorithmically tailored feed and are looking for more than simply headline news may find it very interesting.

Method for Resolving the Issue: News360's AI-powered customization is its strongest point. It is a good option for customers looking for a more personalized news experience because it provides news updates that are modified according to user preferences. Its usefulness for consumers worried about the impartiality and veracity of news is limited, though, by the absence of essential capabilities like fact-checking and bias identification.

d. Jasper

Business Model: Jasper is a content creation-focused premium membership business that offers authors and marketers AI-powered summarizing tools. Both monthly and yearly subscription rates are available.

Target Audience: Content producers, marketers, and companies in need of rapid, AI-powered content creation capabilities, such as summaries and paraphrase, are among Jasper's target customers.

Methodology for Addressing the Issue: Although Jasper is very good at creating material, summarizing, and paraphrasing, news aggregation is not its primary emphasis. The product is very useful for users who are developing marketing material since it leverages sophisticated AI for content generation; however, it is not suitable for users who need real-time news updates or summaries.

e. Smodin

Business strategy: Smodin uses a freemium business strategy, offering both free and paid solutions for paraphrasing and text summarizing. More sophisticated functions are unlocked with the premium edition.

Smodin's target audience consists of professionals, researchers, and students who need to quickly summarize and paraphrase material, including news items.

Method for Resolving the Issue: Smodin offers tools for text summary and paraphrasing, but it is not focused on aggregating or summarizing news in real time. Its capacity to handle the requirement for news-specific summarization—which is crucial for consumers seeking rapid updates—is limited by its overall focus on content rewriting.

f. QuillBot

Business strategy: QuillBot offers both free and premium plans under a freemium business strategy. Additional features like limitless word use and sophisticated AI capabilities are available in the premium edition.

QuillBot is intended for professionals, educators, authors, and students that require AI-powered tools for summarizing and paraphrasing broad topics.

Method for Resolving the Issue: Although QuillBot is a well-liked tool for summarizing and paraphrasing text, real-time news aggregation is not its main application. It is less appropriate for users who seek brief, condensed news updates since it concentrates on summarizing textual information rather than providing tailored news suggestions or sophisticated features like bias detection.

g. Frase.io

Business Model: Frase.io caters mostly to marketers, SEOs, and content producers by providing subscription-based plans for its AI-powered summarization and content analysis tools.

Target Market: Companies, marketers, and content producers in need of AI-powered solutions for content optimization and summary are the target audience for Frase.io. Those who are interested in SEO and content strategy will also find it appealing.

Method for Resolving the Issue: Frase.io is quite good at summarizing information for search engine optimization, although it focuses more on general content than news. Instead of offering consumers a news-specific summarizing tool with real-time updates, bias detection, or fact-checking, the product is more appropriate for content marketing.

h. Paraphraser.io

Business Model: Paraphraser.io provides tools for summarizing and paraphrasing text and offers both free and premium solutions.

Target Audience: Students, teachers, and authors who want a rapid and effective tool for summarizing information are among the target audience members.

Method for Resolving the Issue: Although Paraphraser.io focuses on summarizing and paraphrasing, it does not offer fact-checking or AI-driven news aggregation. Its characteristics are more suitable for professional and scholarly material than for summarizing news in real time.

i. Scholarcy

Business Plan: Scholarcy's subscription-based business plan caters mostly to academic users.

Scholarcy's target audience consists of researchers, scholars, and students who want AI-powered tools for summarizing scholarly publications and papers.

Method for Addressing the Issue: Scholarcy works well for summarizing lengthy scholarly articles, but it is not an expert in news aggregation or real-time news summary. It is more suitable for a specialized academic readership than for news consumers in general.

j. Notta

Notta's business strategy is subscription-based, with premium customers having access to other features in addition to transcription and summary services.

The target audience for Notta includes journalists, experts, and companies that require tools for translation, summarization, and transcription of different kinds of material.

Approach to Problem Solving: Notta concentrates on summarizing and transcribing audio and video material. Although it provides summary, its lack of real-time news aggregation capabilities makes it less appropriate for those looking for rapid news summaries.

k. Resoomer

Business Model: Resoomer summarizes lengthy articles and reports with both free and subscription options.

Resoomer is intended for professionals, educators, and students who want concise summaries of scholarly articles and papers.

Method for Resolving the Issue: Resoomer's primary goal is to summarize professional and scholarly material. Although it provides summary services, its usefulness for news consumers is limited since it lacks real-time news aggregation, bias detection, and fact-checking.

The focus and strategy used by the market's competitors to address the issue of news consumption differ significantly. The Automated content Summarizer is a more complete

solution than Google News and News360, which only gather content and lack important features like fact-checking and AI-driven summarizing. Although rivals such as Jasper, Smodin, Frase.io, and QuillBot are excellent at summarizing generic material, their products are not made for fact-checked content, tailored summaries, or real-time news updates. A platform that offers succinct, AI-driven news summaries together with other features like bias detection, language support, and real-time updates thus has a big chance.

- Assessment of Competitor Strengths, Weaknesses, Opportunities, and Threats (SWOT) (20 points):

Competitor	Strengths	Weaknesses	Opportunities	Threats
Google News	Comprehensive source aggregation, real-time updates	Lacks AI-powered summarization, bias detection, and fact-checking	Enhance with AI features for summarization and fact-checking	Growing competition from specialized AI-driven news apps
Inshorts	Quick summaries, appealing to young, busy individuals	No bias detection or fact-checking, limited language support	Expand AI capabilities, add multilingual support	Dominance of larger apps like Google News
News360	Personalized news recommendations, AI-based content filtering	No bias detection or fact-checking, no real-time updates	Introduce fact-checking and bias detection features	Smaller app size, not as widely known as larger platforms
Jasper	AI-powered content creation and summarization	Not focused on news summarization	Expand into news summarization for general users	Competition from news-focused AI apps
Smodin	Free and paid plans for content summarization	Lacks focus on real-time news aggregation or fact-checking	Introduce news summarization features	Dominance of more established tools for general content creation
QuillBot	Strong paraphrasing and summarization capabilities	No real-time news aggregation	Expand into real-time news summarization	Larger competitors may introduce similar features
Frase.io	AI-driven content research and summarization	Focus is more on content marketing rather than	Expand into personalized news summarization	Growing competition from more

		news aggregation		news-centric apps
Paraphraser.io	Strong paraphrasing and summarization tools	Does not specialize in news aggregation	Introduce real-time news summarization	Competition from news-specific tools
Scholarcy	Focus on summarizing academic papers with citation extraction	Limited to academic content, not real-time news	Expand summarization capabilities to general news content	Limited audience outside of academia
Notta	Transcription, summarization, and translation services	Focused more on transcription, not news aggregation	Develop real-time news summarization and AI-based features	Larger transcription services could overshadow Notta
Resoomer	Effective summarization of academic and professional content	No real-time news aggregation or fact-checking	Expand into real-time news summarization and aggregation	Limited user base due to lack of general news features

- Challenging Component: Require students to perform a feature comparison between their solution and competitors' solutions. This can be presented as a comparison matrix showing where their solution excels, or lacks compared to competitors.

Feature	Automated News Summarizer	Google News	Inshorts	News360	Jasper	Smodin	Quillbot	Frase.io	Notta	Resoomer
AI-Powered Summarization	✓	✗	✓	✓	✓	✓	✓	✓	✗	✓
Bias Detection	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Fact Verification	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Custom Topic Filtering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Multilingual Support	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
Real-Time Updates	✓	✓	✓	✓	✗	✗	✗	✓	✓	✓
Audio Summaries	✓	✗	✗	✓	✗	✗	✗	✗	✓	✗

User Personalization	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓
Mobile App Availability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Subscription Pricing	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓

- **Business Values**

- Definition of Unique Selling Points (USPs) that Set the Proposed Solution Apart

By utilizing the special blend of AI-driven summaries, fact-checking, bias detection, and language support, the Automated News Summarizer is well-positioned to succeed and fill important gaps left by rivals like Google News and Inshorts. The solution may establish itself as a leader in the news summarizing market by tackling the possibilities and weaknesses identified in the SWOT analysis, such as including real-time updates and tailored news experiences.

Unique Selling Point	Description	Differentiation from Competitors
1. Advanced AI-Powered News Summarization	Use of advanced NLP and AI models to generate accurate, concise, and relevant news summaries.	Unlike competitors like Google News, Inshorts, and News360, which lack advanced AI summarization techniques.
2. Real-Time Fact-Checking and Bias Detection	Automated fact-checking and bias detection to ensure credible and unbiased news.	Competitors such as Google News, Inshorts, News360, and Jasper don't offer these core features, leaving users exposed.
3. Multilingual Support for Global Audiences	Provides multilingual support, allowing users to access news summaries in multiple languages.	Competitors like Inshorts lack multilingual support, while Google News offers limited language options.
4. Personalized User Experience Powered by AI	AI-driven content personalization tailored to individual user preferences, ensuring relevant news summaries based on reading habits.	News360 provides personalized recommendations, but Automated News Summarizer offers more granular AI-based personalization.
5. Audio Summaries for Accessibility	Offers audio summaries for users who prefer listening to news, providing more accessibility options.	Unlike Google News and Inshorts, which only offer text-based summaries, this solution includes an audio option.
6. Free Access with Premium Features for Subscribers	Freemium model offering free access to basic features and premium options for AI-powered summarization, fact-checking, and multilingual support.	Google News and Inshorts offer free access but without advanced features. Automated News Summarizer offers premium options.

7. User-Friendly Interface with Advanced Features	Intuitive interface that integrates advanced features like fact-checking and bias detection, while remaining easy to use.	Unlike Jasper, QuillBot, and Smodin, which focus on content generation, this tool is tailored to news consumers.
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Real-World Analysis of Competitor Gaps and User Needs

Competitor	Gaps in Solution	User Needs
Google News	Lacks AI-powered summarization, fact-checking, and bias detection.	Users seek credible, concise, and personalized summaries.
Inshorts	No fact-checking or bias detection, limited multilingual support.	Users want quick summaries with credibility and access to news in multiple languages.
News360	Lacks fact-checking, bias detection, and real-time updates.	Users need real-time, fact-checked, and personalized content.
Jasper	Primarily focused on content generation, not news aggregation.	News consumers require summarization with a focus on trustworthiness, not just content creation.
QuillBot	Primarily focused on paraphrasing and rewriting content, not on summarizing news.	Users need concise, reliable news summaries, not just paraphrased or rewritten content.
Smodin	Lacks specialized features for news summarization and bias detection.	Users want summarized, credible news with an added layer of fact-checking and bias detection.
Frase.io	Focuses on content creation, lacks news aggregation features and real-time news updates.	Users want news summaries that are personalized, real-time, and fact-checked, not just based on content creation.
Notta	Lacks multilingual support and advanced AI features like bias detection and real-time updates.	Users need multilingual, AI-powered, and fact-checked news summaries.
Resoomer	Lacks personalization and AI-driven summarization, only focuses on generic text summaries.	Users want tailored, relevant, and concise news updates, not just generic summaries.

- Articulation of the Value Proposition for Potential Users

A distinctive and alluring value proposition, the Automated News Summarizer immediately meets the demands of contemporary, time-constrained customers who want quick, reliable, and customized news updates. It provides succinct, trustworthy, and personalized news information in a variety of languages by fusing state-of-the-art AI-powered summarization, fact-checking, and bias detection. The solution is intended for people in a variety of categories, including tech aficionados, busy professionals, and global citizens, all of whom need reliable, high-quality news yet are constrained by time constraints or information overload.

Key Aspects of the Value Proposition:

- i. **Time Efficiency:** The Automated News Summarizer saves consumers time by offering succinct, understandable summaries in a world where information is abundant. This is especially helpful for people with hectic schedules (like professionals or students) who wish to keep informed without having to invest the time necessary to read whole articles.
- ii. **Credibility & Trustworthiness:** Our system incorporates fact-checking and bias detection, which sets it apart from many news aggregation platforms and guarantees that consumers receive reliable, impartial, and accurate content. This function is particularly crucial for users who are worried about the increasing dissemination of false information in the media.
- iii. **Customization & Personalization:** To make sure they get the news that matters most to them, users may filter news by subjects, sources, or geographical areas. By customizing material to each user's tastes, the AI-powered customization tool ensures relevancy while preventing information overload. A tech-savvy user could receive more summaries on technology, for instance, whereas a user with a global perspective would choose summaries of world news in several languages.
- iv. **Multilingual Support:** News in different languages is more important than ever as the globe grows more interconnected. Our technology serves a broad, international audience by supporting bilingual news summary. News summaries are available to users in the language of their choice, promoting inclusion and accessibility.
- v. **Fact-Checked News:** Users may be sure that the news they get is accurate and not deceptive thanks to AI-powered fact-checking. Because it adds a level of credibility that many other services don't, this feature appeals to people who are worried about the veracity of the information they take in.
- vi. **A Smooth Cross-Platform Interface:** The Automated News Summarizer guarantees a consistent and seamless user experience across all platforms, including PCs, tablets, and smartphones. Users may get the news that important to them at any time and from any location, whether they are at home or on the road.
- vii. **Cost-Effective:** The Automated News Summarizer provides both free and paid versions, letting consumers select the one that best suits their needs, in contrast to other premium news providers. Essential news summarizing is available in the free edition, but more sophisticated capabilities like fact-checking, language support, and tailored content are unlocked in the premium version.

Differentiation from Competitors:

By including AI-powered summaries, fact-checking, and bias detection—features that many rivals, like Google News and Inshorts, lack—the Automated News Summarizer distinguishes itself in the market. Google News does not summarize or validate the content it collects. Although Inshorts provides concise summaries, it lacks features like bias detection and fact-checking. While News360 and its rivals may provide some customisation, they lack important aspects of legitimacy.

For people who seek short, fact-checked, tailored, and pertinent news in one location, our service is the perfect tool. Automated News Summarizer provides a solution that is not

only a tool, but a useful, time-saving, and reliable resource in today's fast-paced, information-heavy world by meeting the changing demands of contemporary users—who are tech-savvy, worried about the reliability of news, and time-constrained.

- **Challenging Component:** Explain how value proposition translates into long-term benefits, such as cost savings, improved user experience, or competitive advantage.

Long-term benefits analysis:

Benefit	Impact
Cost Savings	Reduces research time and enhances productivity.
User Experience	Intuitive design with personalized settings.
Competitive Advantage	Advanced NLP ensures better summaries compared to traditional methods.