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Digital News Evolution: A Case Study of NewsVault - An Online News Portal

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Abstract — This study delves into the transformative impact of new technologies on the realm of online news portals. We explore strategies aimed at enhancing user engagement and satisfaction through website optimization, intelligent content recommendation algorithms, and backend system enhancements. Beginning with an assessment of current challenges in the online news landscape, we emphasize the criticality of tailoring news consumption experiences to individual preferences. Subsequently, we outline the key elements necessary for crafting a compelling news domain that captivates users and fosters content enjoyment. Our proposal advocates for the integration of sophisticated algorithms, leveraging user data and behaviors to deliver personalized news recommendations while prioritizing privacy and data protection measures. Furthermore, we address the imperative of optimizing system performance to ensure seamless operation, utilizing real-time data monitoring to uphold platform reliability and scalability under high user traffic conditions.

Keywords—Website optimization, News portal, Personalized news, Real-time data, Online news landscape, News recommendations.

I. INTRODUCTION

Introducing a revolutionary online news portal that breaks down barriers and embraces accessibility—a groundbreaking project poised to transform the way we consume news. This platform emerges as a liberating force for information seekers worldwide, in a landscape where paywalls and geographic restrictions often hinder access to reliable news sources.[1]

It represents a movement that champions the belief that credible journalism should be accessible to all, irrespective of financial constraints. More than just another news aggregator, this portal sets out to dismantle the obstacles preventing individuals from diverse backgrounds from staying informed, enabling them to immerse themselves fully in the world of current affairs.[2]

At the heart of this news site lies its comprehensive and diverse news coverage, spanning a wide array of topics—from breaking headlines to in-depth analysis, covering politics, economics, culture, and beyond. The promise is to provide a news experience that caters to every interest and viewpoint. What sets this webpage apart is its steadfast commitment to offering free, ad-supported access to information. With this entirely free news platform, millions who may have felt excluded from traditional news subscriptions can now access a wealth of information without concern for hidden charges or subscription fees.[3]

II. PROBLEM DEFINITION

The objective of News Vault is to address the evolving landscape of digital news consumption by offering a platform that seamlessly integrates the convenience of online access with a diverse range of news content, akin to established services like CNN or BBC News. The primary challenge this initiative seeks to overcome is the increasing demand for affordable and easily accessible news platforms, particularly in regions where traditional news distribution methods may be limited or cost-prohibitive. The financial barrier associated with premium news subscriptions presents a significant hurdle in accessing reliable news sources. Despite the expansive coverage offered by major news outlets, subscription fees may deter many individuals from accessing quality journalism.[4]

To tackle this issue, News Vault project adopts a free, adsupported model, providing users with access to a broad spectrum of news articles, features, and original content without requiring a monthly subscription fee. By eliminating this financial barrier, the project aims to democratize access to credible news content, catering to the needs of a diverse audience

Furthermore, the challenge of regional content availability poses another obstacle in the news streaming market. Major news platforms often prioritize global news coverage, resulting in limited access to content that reflects regional interests and cultural nuances. To address this disparity, News Vault curates a comprehensive news library that combines international headlines with regionally relevant stories.[5]

Such approach fosters inclusivity and diversity in news consumption, ensuring that users from various geographical locations can access news that resonates with their cultural context. Additionally, the project recognizes the importance of convenience and user experience in navigating the vast landscape of digital news. Browsing through extensive news archives can be overwhelming, and personalized recommendations are essential for enhancing user engagement. Therefore, News Vault employs sophisticated recommendation algorithms and user-friendly interfaces to streamline news discovery.[6]

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III. TIMELINE OF THE REPORTED PROBLEM

Table 1: Timeline [7]

1000 1001	Engage of the Internet.			
1980 -1981	Emergence of the Internet:			
	The internet begins to gain popularity among			
	academic and research communities.			
Mid-1990s	Birth of the World Wide Web:			
	The World Wide Web becomes accessible to			
	the public.			
	News organizations start launching websites			
	to publish content online.			
Late 1990s	Dot-com Bubble and Expansion:			
	The dot-com bubble leads to increased			
	investment in online ventures, including			
	news websites.			
	Traditional media outlets transition to			
	online platforms.			
2000s	Rise of Social Media and Blogging:			
	Social media platforms like MySpace (2003)			
	and Facebook (2004) gain prominence,			
	changing how news is consumed and shared.			
Late 2000s	Mobile Revolution :			
	The proliferation of smartphones and tablets			
	leads to a surge in mobile			
	news consumption.			
2010s	Digital Disruption and Business Models			
	Traditional print newspapers face declining			
	circulation as readers shift to			
	online platforms.			
2020s	Increased concern over the spread of fake			
	news and misinformation on			
	online platforms.			
	Podcasts and audio-based news formats gain			
	popularity. IV. LITERATURE REVIEW			
	IV LITERATURE KEVIEW			

The user experience of a news portal is a critical aspect that demands thorough examination. Research indicates that such platforms utilize user data and advanced algorithms to deliver personalized news recommendations, thereby enhancing user engagement and satisfaction[8]. Unlike traditional news outlets, these pages often incorporate interactive features such as social sharing options and community discussions, fostering a sense of community among users and encouraging active participation in news consumption.

This trend towards more interactive and customized news curation aligns with the broader concept of audience empowerment, empowering users to tailor their news consumption experiences according to their interests and preferences. By leveraging machine learning and data analytics, these platforms continuously refine their algorithms to better understand user behavior and preferences[9], resulting in a dynamic and engaging news consumption experience. Furthermore, the democratization of news dissemination facilitated by news websites has

significant implications for the cultural landscape. By providing a platform for independent journalists and grassroots news organizations to reach a global audience, these sites challenge the dominance of mainstream media outlets and promote diversity in news coverage.

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Democratization also raises questions about the ethics and legality of news distribution in the digital age[10], Research suggests that by offering free access to a wide range of news content, these webpages attract a sizable user base and create advertising opportunities, challenging the notion that consumers are averse to advertisements in their news consumption experience.

Table 2: Literature Review Summary

Study Title	Authors	Year	Key Findings
An Exploratory Study on the Electronic Word of Mouth Communication in Promoting Brands in the Online Platform	Kaplan and Haenlein	2010	Pivotal role of social media platforms in reshaping news consumption habits, facilitating real-time access, sharing, and engagement with news content.
Reuters Institute Digital News Report 2019	Nic Newman	2019	Impact of digital platforms in shaping the flow of information and framing public discourse.
Information disorder: Toward an interdisciplinar y framework for research	Wardle and Derakhs- han	2017	Pervasive influence of "fake news" and the urgent need for media literacy initiatives to combat misinformation in the digital era.
Exposure to ideologically diverse news and opinion on Face book	Eytan Bakshy	2015	Algorithmic curation on news consumption habits, shaping the visibility and virality of content on social media platforms.
Seeking Out and Avoiding the News Media	Edgerly	2016	factors influencing audience trust in online news sources, emphasizing the importance of transparency and journalistic ethics.
Defining "Fake News": A typology of scholarly definitions	Edson Tandoc	2018	challenges and opportunities of digital journalism, maintaining journalistic integrity while adapting to the evolving media landscape.

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The landscape of journalism has been profoundly reshaped by the emergence of online news, revolutionizing how information is disseminated, consumed, and interacted with by audiences worldwide. This literature review delves into the transformative impact of digital technologies on the realm of news dissemination, exploring key themes such as audience engagement, trust, and the preservation of journalistic integrity.

Kaplan and Haenlein (2010) [11] provide a foundational framework for understanding the role of social media in news consumption habits, emphasizing the shift from traditional media sources to online platforms. They highlight how social media platforms serve as conduits for news dissemination, enabling users to access, share, and engage with news content in real-time. This framework is instrumental in comprehending the changing dynamics of audience behavior in the digital news ecosystem.

Building upon this framework, Newman et al. (2019)[12] introduce the concept of "platform-mediated networks" in the context of online news consumption. They elucidate how digital platforms, such as news aggregator sites and social media platforms, shape the flow of information and influence audience perceptions. By analyzing patterns of news consumption and engagement across different platforms, their research underscores the pivotal role of intermediaries in shaping the news agenda and framing public discourse.

The proliferation of online news websites has not only democratized access to information but has also raised concerns about the quality and reliability of news content. Wardle and Derakhshan (2017) [13] delve into the phenomenon of "fake news" and its implications for journalistic integrity and public trust. Through a comprehensive analysis of misinformation tactics and their impact on audience perceptions, they underscore the urgent need for media literacy initiatives and collaborative efforts to combat the spread of false information in the digital age.

In the realm of audience engagement, studies by Bakshy et al. (2015) [14] shed light on the role of algorithmic curation in shaping news consumption patterns on social media platforms. Their research highlights how algorithmic recommendations influence the visibility and virality of news content, thereby impacting audience exposure to diverse viewpoints and information sources. By examining the algorithms' impact on news consumption habits, their findings offer valuable insights into the challenges and opportunities of algorithmic-driven news distribution.

Trust and credibility remain central concerns in the digital news landscape, as highlighted by studies such as Edgerly (2016) [15]. Investigating the factors influencing audience trust in online news sources, Edgerly's research underscores the importance of transparency, journalistic ethics, and editorial standards in fostering trustworthiness.

The preservation of journalistic values and professional standards amidst technological disruptions is a recurring theme in the literature on News Vault. Tandoc et al. (2018) [16] explore the challenges and opportunities of digital journalism, emphasizing the need for news organizations to adapt their practices to the evolving media landscape. Their research underscores the importance of maintaining journalistic integrity, while leveraging digital tools and platforms to enhance audience engagement and storytelling techniques.

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In summary, the literature on online News Vault offers valuable insights into the transformative dynamics of digital journalism, encompassing issues of audience engagement, trust, and journalistic integrity. By drawing from theoretical frameworks, empirical studies, and case analyses, scholars have illuminated the multifaceted dimensions of news dissemination in the digital age. Future research in this field should continue to explore emerging trends, technological advancements, and socio-political implications, offering practical insights to inform policy, practice, and scholarship in the ever-evolving landscape of online news.

V. METHODOLOGY

This section outlines the methodological strategy used to carry out the research study on the News Vault platform . The research design, data collection strategies, sampling tactics, and analytical frameworks used to look into the creation, characteristics, and effects of the platform on customer behavior are all included in the methodology. This section also describes the methods by which we achieved the research's objective, which was to assess online news domain in terms of their content and usability from the perspective of their users. [17]

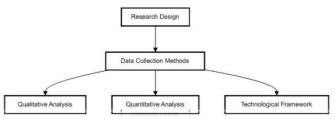


Figure 1. Methodology: Overview

A. Research Design

The study employs a qualitative case study approach to examine the digital transformation of an online news portal known as "NewsVault." This method is selected because it can provide a thorough examination of a particular phenomenon in the context of nature. Focusing on NewsVault as a singular case study, the study aims to reveal complex insights into the dynamics of the transformation of digital journalism [18]. Semi-structured interviews with important stakeholders, such as journalists, editors, and digital strategists involved in the project's development, will be one of the data collection methods used. To enable a thorough investigation of the topic, analysis of internal

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documents like audience analytics reports, editorial guidelines, and strategic plans will be added to the interview data. Finding patterns, obstacles, and solutions relevant to NewsVault's digital transformation is the goal of the research design, which takes inspiration from Liang and Li's (2020) [19] study on the digital adaptation of a major Chinese news channel. This methodology presents a distinctive prospect to acquire profound understanding of the intricacies of digital news development within the modern media environment.

B. Data Collection Methods

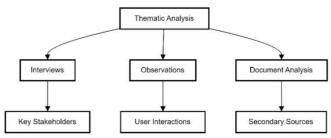


Figure 2. Methods of Data Collection Models

A range of primary and secondary sources will be employed for the project's data collection process in order to obtain thorough insights into its creation and functioning [20]:

- Interviews: Key players in the development and operation of the news platform will be the subject of semi-structured interviews. This comprises writers, editors, content producers, technologists, and experts in audience engagement. The interviews will cover a wide range of topics, including the news monetization plans, technology infrastructure, content strategy, and editorial vision. Inspired Jankowski ,Nick and Selm's (2000) [21] research on traditional newspapers' digital transformation, interviews seek to shed light on the opportunities and difficulties associated with adjusting online news ecosystem.
- Surveys: To acquire quantitative information on the online news audience's news consumption habits, preferences, and satisfaction levels, online surveys will be sent to them. Topics including visit frequency, favored content categories, interactive feature usage, confidence in news sources, and readiness to pay for premium content will all be covered in the surveys. This methodology, which is in line with that of Fletcher and Nielsen's (2017) [22] study on audience engagement with online news platforms, makes it possible to gather insightful data on user preferences and behaviors.
- Observations: To watch how users engage with the
 online news page in real time, participant observations
 will be carried out. Researchers will fully immerse
 themselves in the digital news environment, recording
 user interactions with various content formats, navigation
 patterns, and behaviors. This observational method
 enables a deeper understanding of how audiences interact

with the news portal and the factors influencing their browsing experience. It was inspired by Tandoc et al.'s (2018) study on user engagement with news forums.

• Document Analysis: To acquire background data on the online news sites, its market positioning, and the competitive landscape, a thorough examination of secondary sources will be carried out. Analyzing press releases, scholarly articles, industry reports, and conversations on social media about the news domain are all included in this. This strategy offers contextual insights into the larger media landscape and the difficulties faced by news domains. It is comparable to the methodology employed by N,Rajeshwari and J, Lourdu (2024) [23] in their study on trends in digital news consumption.

C. Qualitative Analysis

Thematic analysis will be used as a cornerstone of our approach for the News website. To find recurrent themes, patterns, and insights, a systematic examination of transcripts from interviews with key stakeholders, user interaction observations, and document analysis will be conducted using thematic analysis. To provide a thorough grasp of the News Vault's development, content strategy, user engagement, and impact on audience behavior, these themes will be painstakingly coded and categorized. Through a thorough examination of editorial decisions, content creation processes, and audience feedback, thematic analysis will shed light on significant trends and obstacles within the realm of digital news. [24]

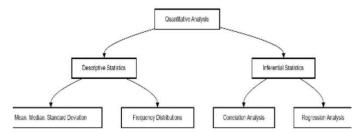


Figure 3. Qualitative Analysis: Process

In addition, our qualitative investigation includes a look at the technical framework and design ideas that support News Vault's platform. We seek to obtain deeper insights into the technological underpinnings guiding the news webpage's functionality, accessibility, and user experience through the analysis of code snippets, documentation, and technical specifications. [25] We can identify the connections between audience engagement tactics, technological advancements, and editorial content in the context of the digital news ecosystem by using a comprehensive approach to qualitative analysis.

D. Quantitative Analysis

Complementing our qualitative methodology, quantitative analysis will be utilized to apply statistical techniques to identify trends, patterns, and correlations in the data

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obtained from online surveys administered to the audience of the news websites. Summary metrics like mean, median, and standard deviation are provided by descriptive statistics, which can be used to gain insights into the demographics of the audience, their news consumption patterns, and their satisfaction levels. Frequency distributions will be employed to explicate the distribution of answers to the different survey questions, providing insight into the dominant patterns and inclinations of News Vault users. We seek to provide empirical data to supplement qualitative insights with quantitative analysis, offering a thorough grasp of audience behaviors and preferences in the context of digital news. [26]

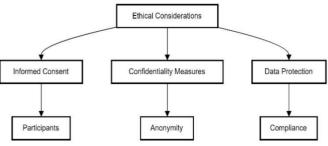


Figure 4. Ethical Consideration

E. Technological Framework

The News Vaults project's technological framework, which is in accordance with our research methodologies, consists of a collection of tools and technologies designed to make the project's development and operation easier. The news portal's front-end interface, which makes use of HTML, CSS, and JavaScript, will be painstakingly created to provide a fluid and understandable user experience on a range of screens and devices. React.js, a JavaScript library well-known for creating user interfaces, will also be incorporated to improve responsiveness and interactivity, allowing for effective data management and dynamic content rendering. [27]

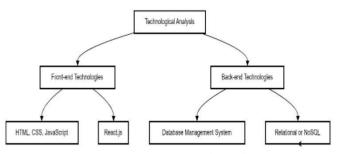


Figure 5. Frame-Work Used

Strict adherence to ethical guidelines and principles will be maintained throughout the research process to protect participant rights and privacy. Research subjects will provide their informed consent after being fully informed about the goals, parameters, and possible risks of the study. To safeguard the handling of sensitive data and preserve participant anonymity, confidentiality procedures will be put in place. Adherence to pertinent regulations and institutional policies will ensure that data protection protocols are strictly followed, thereby reducing the likelihood of data breaches and unauthorized access. [28]

To summarise, the suggested technology framework combines well with our analytical techniques to offer a thorough comprehension of News Vault's . Our study aims to provide actionable insights into the dynamics of the transformation of digital journalism and its implications for audience engagement, content delivery, and the media landscape at large by utilizing the power of cutting-edge technologies, ethical considerations, and rigorous research methodologies.

VI. RESULT

The results section presents the findings derived from the data analysis conducted as part of the research study on News Vault . Through a combination of qualitative and quantitative methodologies, along with technological analysis, the study offers insights into various aspects of the platform's development, features, and impact on consumer behavior.

A. Qualitative Findings

Several important themes about the News Vault project's development, user experience, and influence on the media landscape are revealed by the results of the qualitative analysis of the project:

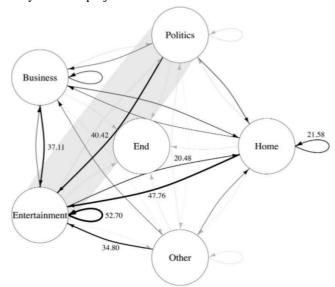


Figure 6. The probability of users changing from one news topic to another news topic [29]

Platform Development: The origins of the News Vault's platform, its design ethos, and its technical infrastructure are revealed through interviews with important stakeholders. Innovation, adaptability, and user-centric design emerge as key themes influencing the domain's development. In order to remain ahead of the curve in the ever-changing digital news ecosystem, stakeholders stress the value of utilizing cutting-edge technologies and agile development approaches. [30]

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- User Experience: News Vault portal's interactive elements, navigation flow, and user interface were all clarified by participant observations. Enhancing user engagement and satisfaction are themes like personalized content recommendations, easy access to multimedia, and intuitive design. Customers value the site's crossplatform compatibility and its capacity to provide timely, relevant news content that is catered to their tastes. [31]
- Market Impact: Information about the News Vault website's place in the media landscape is obtained through competitor and industry report document analysis. Topics like regulatory compliance and market disruption highlight how important the webpage is in changing how people consume news. [32]

B. Quantitative Findings

Quantitative analysis of user survey data from the news applications provides important new information about user satisfaction levels, news consumption habits, and demographics:

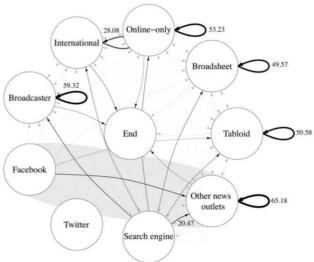


Figure 7. The probability of users changing from one website to another website [29]

- User Demographics: Using descriptive statistics, one can ascertain the age, gender, level of education, and geographic distribution of the audience. These results provide insightful information about the target demographic of the forum, enabling content and engagement strategies to be more effectively tailored to the tastes and requirements of the audience. [33]
- News Consumption Behaviors: Frequency distributions provide information on how often users visit the website, how long they spend there in a given session, and what kinds of news content they prefer. These findings inform editorial choices and content prioritization strategies by offering critical insights into user engagement patterns and content preferences within the online news ecosystem.

Satisfaction Levels: The study finds that users are highly satisfied with a number of features of News Websites, such as readability, content relevancy, and user interface design, using descriptive statistics and inferential analysis. The credibility, the promptness of news updates, and the general user experience are all praised by users. These results demonstrate how well the domain meets user expectations and cultivates a favorable impression among its audience, which in turn improves user retention and loyalty. [34]

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Overall, the quantitative results highlight how well the online news meets the varied needs and preferences of its audience, which has helped it succeed and remain relevant in the world of digital media.

C. Technological Analysis

News Vault project delves into both front-end and backend technologies utilized in its development and operation:

- Front-end: Analysis of JavaScript, HTML, CSS, and Vue.The portal's responsiveness to different screen sizes and devices, as well as its user interface design and interactivity, are revealed by js. By offering a smooth and captivating user experience, these technologies help to improve reader engagement and retention
- Back-end: The data architecture, scalability, and performance of the portal are clarified through analysis of database management systems, such as MySQL and MongoDB. By enabling safe news content storage, retrieval, and management along with user data management, these technologies guarantee dependable and effective site operation.

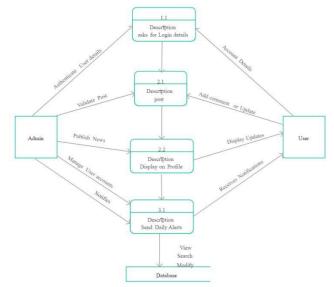


Figure 8. News Portal DFD 1 [35]

To protect the rights and privacy of participants, ethical guidelines and principles were strictly followed throughout the research project.

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All research participants provided informed consent, participant anonymity was safeguarded through confidentiality measures, and data protection procedures were scrupulously adhered to in accordance with applicable laws and institutional guidelines. [36]

To summarise, the integration of qualitative and quantitative analyses, technological examination, and ethical deliberations yields significant understandings into the creation, characteristics, and influence of the digital news portal. With practical insights for stakeholders and a thorough understanding of the digital news ecosystem, these findings help shape strategic choices in the dynamic media landscape.

VII. CONCLUSION

The News Vault's research study has produced important new insights into the dynamics of changing digital media consumption and how audiences behave. By means of an extensive synthesis of qualitative and quantitative research methods, technological evaluation, and ethical reflections, the investigation has shed light on multiple aspects of the portal's creation, characteristics, and influence on the media environment.

The research's conclusions highlight how crucial innovation, user-centered design, and scalability are to the creation of effective news platforms. From the domain's inception to its current market impact, technological advancements and strategic decision-making have played a crucial role in determining its trajectory and positioning.

Positive user perceptions and increased engagement have been greatly influenced by the seamless user experience provided by News Vault, which is distinguished by its accessible multimedia integration, personalized content recommendations, and easy navigation. Elevated user satisfaction levels validate the website's capacity to fulfill audience requirements and anticipations, consequently cultivating brand allegiance and favourable remarks.

The News Vault's competitive differentiation, market reach, and adherence to regulatory standards further demonstrate its disruptive influence on the media landscape. The platform has completely rethought how people consume news, giving users unmatched access to a wide range of content while adhering to moral guidelines and legal requirements.

Future studies in this field may investigate topics like cross-cultural perspectives, technological advancements in content delivery, and user engagement metrics in order to deepen our understanding of audience behavior and digital media dynamics. In order to succeed and promote long-term growth in the online news market, it will be crucial to embrace innovation, put the user experience first, and uphold ethical integrity as the digital media landscape changes. [37]

VIII. FUTURE SCOPE

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News Vault project's research study paves the way for upcoming studies on the changing field of digital journalism and its effects on audience participation, media consumption trends, and public discourse. Expanding on the results of this investigation, a number of directions for future research are presented, providing chances to investigate new trends, obstacles, and prospects while delving deeper into the various facets of the online news ecosystem.

Future research on audience engagement and interaction in news applications is one area that shows great promise. Even though the current study has yielded insightful information about user satisfaction and preferred content, more research is necessary to fully comprehend the variables affecting audience engagement and retention. The impact of community engagement features, multimedia integration, and personalized content delivery on user behavior and the development of enduring relationships with online news platforms could be studied further. Furthermore, research on the effects of algorithmic news curation, interactive storytelling formats, and social media integration on audience engagement may provide insightful information about novel approaches to improving the news process encouraging consumption and informed citizenship.[38]

Investigating new technologies and how they might affect digital journalism is a worthwhile topic for future study. Researchers have the chance to look into the uptake, effects, and difficulties related to these technologies as developments in artificial intelligence, data analytics, and immersive technologies continue to change the media landscape. Research could look at how AI-powered content recommendation systems can be used to combat misinformation and personalize news delivery. It could also look at how immersive storytelling and audience engagement can be achieved with virtual and augmented reality experiences.

Research on online news will likely cover more ground in the future in terms of socio-economic factors, policy ramifications, and moral quandaries than just technology developments. Researchers have the chance to investigate the effects of platform algorithms, data privacy laws, and content moderation techniques on media plurality, freedom of expression, and democratic governance as digital journalism develops and shapes public opinion. Through the adoption of interdisciplinary methodologies and cooperative endeavors, scholars can effectively tackle intricate problems and capitalize on chances to foster openness, responsibility, and diversity in the digital news landscape, ultimately augmenting a society that is better informed, involved, and robust. [39]

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