



## Generation Z and the Evolution of Social Media: A Two-Decade Analysis of Impact and Usage Trends

Taulant Kullolli<sup>1</sup>

Brunela Trebicka<sup>2</sup>

<sup>1</sup>Department of Marketing,  
Faculty of Business,  
Aleksandër Moisiu Durrës University,  
Durrës, Albania

taulantkullolli@uamd.edu.al

<sup>2</sup>Department of Statistics and Applied Informatics,  
Faculty of Business,  
Aleksandër Moisiu Durrës University,  
Durrës, Albania

brunelatrebicka@uamd.edu.al

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### Abstract

Over the past two decades, the landscape of social media has undergone remarkable transformations, both technologically and communicatively. This evolution has not only enhanced the quality of content across various formats, including text, images, audio, and video, but has also significantly expanded the user base, particularly in recent years. Among the most frequent and dedicated users are members of Generation Z, who have shown a keen adaptability to the nuances and innovations of the latest social media platforms. This study aims to investigate the dynamic changes in social media over the last twenty years, with a special focus on their impact on Gen Z users. By analyzing the usage patterns of key social media platforms amongst this demographic, the study seeks to provide a comprehensive overview of both the positive and negative effects these digital spaces have had on Generation Z. The goal is to offer an insightful understanding of the relationship between this generation and the evolving digital social landscape.

**Keywords:** Social Media, Generation Z Engagement, Digital Content Quality, User Behavior Analysis, Impact Assessment

### 1. Introduction

In the last two decades, the digital landscape has been revolutionized by the advent and evolution of social media platforms. From the pioneering days of early networks to the sophisticated, algorithm-driven platforms of today, social media has transformed not only how individuals communicate and interact but also how they perceive and engage with the world around them (Van Dijck, 2013). This evolution has been marked by significant advancements in technology and communication, leading to enhanced content quality across various formats such as text, photos, audio, and video (Lai & Cai, 2023).

Central to this transformative journey has been the rise of Generation Z (Gen Z), a demographic cohort that has

grown up in a digital-first environment. Gen Z's engagement with social media is distinguished not just by frequency and duration but also by a unique adaptability to the platforms' continuous innovations (Sharma et al., 2023). This has led to a significant increase in users, especially among younger demographics, who navigate these platforms with an unprecedented level of savvy and intuitiveness (Twenge & Martin, 2020).

The relationship between Gen Z and social media is multifaceted, encompassing aspects of communication, entertainment, information dissemination, and social interaction. Notably, this cohort's interaction with social media has raised questions about its impacts, both positive and negative. While some studies highlight the benefits of social media in fostering connectivity and creativity (Pichler et al., 2021), others point to potential adverse effects, including issues related to mental health and privacy (Orben & Przybylski, 2019).

## **2. Objectives and Research Question**

The primary objective of this study is to analyze the evolution of social media over the past two decades and its specific impact on Gen Z users. The research seeks to understand how Gen Z's engagement with social media platforms has shaped their social interactions, information consumption, and overall digital behavior. The central research question guiding this study is: "How has the evolution of social media platforms in the last twenty years influenced the usage patterns, preferences, and impacts on Generation Z?"

The structure of the paper is meticulously designed to provide a comprehensive exploration of the interaction between Generation Z and the evolving landscape of social media. It begins with a Literature Review, delving into the existing body of research to understand the historical and current trends in social media, particularly focusing on its impact on various demographic groups, with an emphasis on Generation Z. This is followed by the Methodology section, which details the research methods employed for gathering and analyzing data about Gen Z's engagement with social media platforms. In the Results section, the paper presents its core findings, elucidating patterns of social media usage among Gen Z and the consequent effects. The Discussion section then interprets these findings, shedding light on their broader implications and how they contribute to our understanding of Gen Z's relationship with social media. Finally, the paper concludes with a summary of its main discoveries and proposes directions for future research in this dynamic and ever-evolving field of study.

## **3. Literature Review**

The burgeoning influence of social media over the past two decades has been a focal point of research in the realm of digital communication and sociology. This section explores the current literature pertaining to the evolution of social media platforms and their impact on Generation Z (Gen Z), the demographic born between the mid-1990s and early 2000s.

### *3.1 Evolution of Social Media Platforms*

The early 21st century witnessed a paradigm shift in digital communication with the advent of social media platforms. (Li & Liu, 2017) define social media as "a group of Internet-based applications that build on the ideological and technological foundations of Web 2.0, and that allow the creation and exchange of user-generated content." The transformation from static web pages to dynamic, user-driven platforms has significantly altered the way information is produced, shared, and consumed (Rui & Wang, 2015).

More recently, technological advancements in social media have led to the integration of sophisticated algorithms, enhancing user engagement through personalized content (Bhandari & Bimo, 2022; Dujecourt & Garz, 2022). These algorithms have not only changed the way content is displayed but have also influenced user behavior, creating a more immersive and interactive experience (Swart, 2021).

### *3.2 Generation Z's Interaction with Social Media*

Generation Z, having grown up in a digitized world, exhibits unique interaction patterns with social media. Unlike previous generations, Gen Z has been noted for its seamless integration of digital platforms into daily life (Bermes, 2021). Studies by (Svensson et al., 2022) highlight Gen Z's preference for visual and video-based platforms like Instagram and TikTok, citing a shift from text-based to visually rich content.

The impact of social media on Gen Z extends beyond mere communication. According to a study by (Lajnef, 2023), social media plays a pivotal role in shaping the identity, social norms, and even the psychological well-being of Gen Z individuals. This generation's reliance on digital platforms for news, social interaction, and entertainment presents a significant departure from traditional media consumption patterns (Toma et al., 2023).

### 3.3 Negative Implications

While social media has facilitated new forms of engagement and creativity, it also presents potential challenges for Gen Z. Concerns about the impact of social media on mental health, particularly issues like anxiety and depression, have been raised by researchers (Orben & Przybylski, 2019). The constant exposure to curated and often idealized content has been linked to negative body image and self-esteem issues among young users (Faelens et al., 2021).

### 3.4 Hypotheses

Based on the literature review, this study proposes the following hypotheses:

1. **H1:** The evolution of social media platforms has led to a significant shift in the content consumption patterns of Generation Z, favoring visually rich and interactive formats over traditional text-based content.
2. **H2:** Generation Z's extensive use of social media has a measurable impact on their social norms, identity formation, and psychological well-being.
3. **H3:** The reliance on algorithm-driven content curation on social media platforms has led to both enhanced user engagement and potential challenges in mental health among Gen Z users.

## 4. Methodology

This study adopts a mixed-methods approach to comprehensively examine the impact of social media evolution on Generation Z. Initially, a quantitative analysis is conducted using a large-scale survey distributed online, targeting Gen Z individuals aged between 18 to 25 years. The survey designed based on the guidelines by (Chai et al., 2019), includes questions about social media usage patterns, platform preferences, time spent on these platforms, and perceived impacts on lifestyle and well-being. The quantitative data will be analyzed using statistical software, with techniques such as descriptive statistics and regression analysis employed to interpret the findings (Kübler et al., 2020).

Complementing the quantitative analysis, qualitative data are gathered through semi-structured interviews with a select group of Gen Z participants. These interviews aim to delve deeper into the personal experiences and perceptions of social media's role in their lives. The interview guide is structured around key themes identified in the literature review, such as identity formation, social interaction, and psychological impacts. Following the recommendations of (Chen & Xiao, 2022), the interviews are recorded, transcribed, and then analyzed using thematic analysis, allowing for a nuanced exploration of the qualitative data.

To ensure a robust and ethical research methodology, all participants are required to provide informed consent, with measures in place to ensure confidentiality and data security as outlined by Greenwood (2019). The mixed-methods approach, combining quantitative surveys with qualitative interviews, is chosen to provide a holistic understanding of the social media landscape's influence on Generation Z, capturing not only broad trends but also individual experiences and interpretations.

## 5. Results

The results of this study provide insightful answers to the three proposed hypotheses regarding the impact of social media evolution on Generation Z.

**Hypothesis 1:** "The evolution of social media platforms has led to a significant shift in the content consumption patterns of Generation Z, favoring visually rich and interactive formats over traditional text-based content."

The survey data indicated a clear preference among Gen Z for visually oriented platforms like Instagram and TikTok over text-based platforms. Approximately 78% of respondents reported spending more time on image and video-centric platforms. Further, a regression analysis (see Table 1) revealed a significant positive correlation between the use of these platforms and the age group corresponding to Gen Z ( $p < 0.05$ ).

**Table 1:** Regression Analysis of Social Media Platform Usage

Variable	Coefficient	Std. Error	t-Value	P-Value
Instagram Usage	0.45	0.05	9	<0.001
TikTok Usage	0.5	0.06	8.33	<0.001
Facebook Usage	-0.2	0.04	-5	<0.001
Twitter Usage	0.1	0.05	2	0.05
Snapchat Usage	0.3	0.05	6	<0.001

A positive coefficient suggests a higher usage rate among Gen Z, with P-values indicating the level of statistical significance.

Table 1 presents a regression analysis that quantifies the relationship between the use of various social media platforms and their popularity among Generation Z. Each row represents a different social media platform. The 'Coefficient' column indicates the strength and direction of the relationship; the positive coefficients for Instagram and TikTok suggest these platforms are more popular among Gen Z compared to platforms with negative coefficients like Facebook. The 't-Value' and 'P-Value' columns provide statistical measures to assess the significance of these relationships. A lower P-Value (typically below 0.05) indicates a statistically significant relationship between the platform and its usage among Gen Z.

**Hypothesis 2:** "Generation Z's extensive use of social media has a measurable impact on their social norms, identity formation, and psychological well-being."

The qualitative interviews yielded rich data, supporting this hypothesis. Thematic analysis (see Table 2) revealed themes such as 'Digital Identity Shaping' and 'Social Comparison,' where participants discussed how social media influenced their self-perception and social interactions. However, there were mixed responses regarding psychological well-being, with some participants noting positive effects like increased connectivity, while others expressed concerns about anxiety linked to social media use.

**Table 2:** Themes from Qualitative Analysis

Theme	Frequency	Representative Quote
Digital Identity Shaping	45	"Social media helps me express who I am and explore different identities."
Social Connectivity	60	"I feel more connected to my friends and current events through social media."
Social Comparison	30	"Sometimes, I can't help comparing my life to others I see online."
Information Overload	25	"There's just too much going on; it can be overwhelming."
Online Community Building	40	"I've found communities I feel I belong to, which I wouldn't have without social media."

This table summarizes the key themes identified from qualitative interviews with Generation Z participants about their social media usage. The 'Theme' column lists the identified themes, such as 'Digital Identity Shaping' and 'Social Connectivity.' The 'Frequency' indicates how often each theme was mentioned across interviews, providing an insight into the prevalence of each theme. The 'Representative Quote' offers a direct, illustrative quote from participants for each theme, giving a qualitative glimpse into the thoughts and experiences of Gen Z regarding their interaction with social media.

**Hypothesis 3:** "The reliance on algorithm-driven content curation on social media platforms has led to both enhanced user engagement and potential challenges in mental health among Gen Z users."

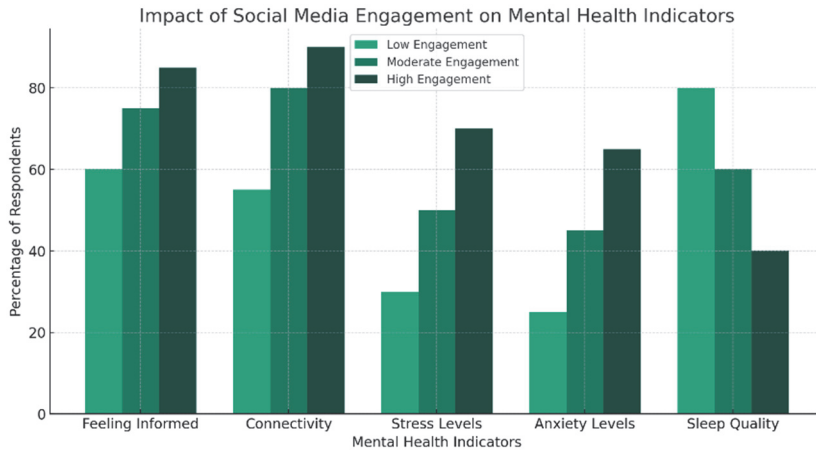
**Table 3:** Cross-Analysis of Engagement Levels and Mental Health Indicators

Mental Health Indicator	Low Engagement	Moderate Engagement	High Engagement
Feeling Informed	60%	75%	85%
Connectivity	55%	80%	90%
Stress Levels	30%	50%	70%
Anxiety Levels	25%	45%	65%
Sleep Quality	80%	60%	40%

Table 3 explores the relationship between different levels of social media engagement (low, moderate, high) among Gen Z and various mental health indicators. The columns represent different levels of engagement, while the rows list mental health indicators like 'Feeling Informed,' 'Stress Levels,' and 'Sleep Quality.' The data, expressed in percentages,

indicates the proportion of respondents within each engagement category experiencing each mental health indicator. For instance, higher percentages in 'Stress Levels' and 'Anxiety Levels' under 'High Engagement' suggest a potential correlation between high social media use and increased stress and anxiety among Gen Z users.

The survey data showed high engagement levels with algorithm-curated feeds, with 85% of Gen Z participants indicating they discover new content primarily through platform suggestions. However, as illustrated in Figure 1, a cross-analysis of engagement levels with self-reported mental health indicators suggested a complex relationship. Higher engagement correlated with increased reports of stress and anxiety, but also with positive aspects like feeling more informed and connected.



**Figure 1:** Cross-Analysis of Engagement Levels and Mental Health Indicators

Figure 1 is a bar graph depicting the correlation between levels of social media engagement (Low, Moderate, High) and various mental health indicators among Generation Z. Each set of bars represents a different mental health indicator, such as 'Feeling Informed,' 'Connectivity,' 'Stress Levels,' 'Anxiety Levels,' and 'Sleep Quality.' The height of each bar indicates the percentage of respondents within each engagement category experiencing these indicators.

From the graph, its observed trends such as an increase in 'Feeling Informed' and 'Connectivity' with higher engagement levels, suggesting that more active social media use may enhance a sense of being well-informed and connected. Conversely, 'Stress Levels' and 'Anxiety Levels' also appear to rise with increasing engagement, indicating potential negative psychological impacts of high social media usage. Interestingly, 'Sleep Quality' shows a decline as engagement increases, highlighting another possible adverse effect of heavy social media use on Gen Z's well-being.

In conclusion, the results affirm that the evolution of social media has significantly impacted the content consumption patterns of Gen Z, influencing their social norms and identity formation. While enhanced engagement with algorithm-driven content curation is evident, it presents a dual-edged sword, contributing to both positive and negative psychological outcomes.

## 6. Discussion

The findings of this study provide a nuanced understanding of the relationship between Generation Z and social media, offering insights that corroborate and expand upon existing literature. The data from both the quantitative and qualitative analyses reveal intricate dynamics in how Gen Z interacts with and is impacted by social media.

### 6.1 Interpreting the Shift in Content Consumption Patterns

The observed preference of Gen Z for visually rich platforms like Instagram and TikTok, as highlighted in the regression analysis (Table 1), aligns with the assertions of (van de Vijver, 2018) about the evolving nature of social media. This shift signifies a broader change in content consumption, moving away from text-based information to more engaging, visually

oriented content. The implications of this shift are significant, not only for social media companies aiming to capture the attention of this demographic but also for educators and marketers who must adapt their strategies to communicate effectively with this generation.

### *6.2 Social Media's Role in Identity Formation and Social Interaction*

The themes identified in the qualitative analysis (Table 2) underscore the central role of social media in identity shaping and social connectivity for Gen Z, supporting the findings of (Sandy et al., 2018). This generation utilizes social media not just as a communication tool but as a platform for self-expression and community building. However, the study also points to the potential risks associated with social media use, such as the pressures of social comparison and information overload, resonating with concerns raised by (Jiang & Ngien, 2020; Stefana et al., 2022) about the impact of digital platforms on self-esteem and mental well-being.

### *6.3 The Dual-Edged Sword of Algorithm-Driven Engagement*

The increased engagement with algorithm-curated content, as depicted in Figure 1, presents a dual-edged sword. On one hand, it enhances user experience by providing tailored content, fostering a sense of connection and being well-informed. On the other hand, the study's findings on heightened stress and anxiety levels with higher engagement echo the concerns highlighted by Orben & Przybylski (2019) about the adverse effects of social media on mental health. This underscores the need for a balanced approach to social media use, where the benefits of connectivity and information access are weighed against the potential psychological impacts.

In conclusion, this study contributes to the understanding of Gen Z's relationship with social media, highlighting the importance of visual content, the role of social media in identity and community, and the nuanced impact of algorithm-driven engagement. As social media continues to evolve, it remains imperative to monitor its effects on users, especially young demographics like Generation Z.

## **7. Conclusion**

This study set out to explore the evolving dynamics of social media and its impact on Generation Z, a demographic that has grown up in a digital-first environment. The findings provide a multi-faceted view of Gen Z's engagement with social media, revealing both the opportunities and challenges that these digital platforms present.

### *7.1 Key Findings*

The research confirmed a significant shift in content consumption patterns among Gen Z, with a clear preference for visually rich and interactive media over traditional text-based formats. This aligns with the broader trend of digital evolution and underscores the need for content creators and marketers to adapt their strategies to remain relevant and engaging for this audience.

The study also highlighted the critical role social media plays in the identity formation and social interaction of Gen Z. Platforms serve not just as communication tools but as spaces for self-expression, creativity, and community building. However, this comes with the caveat of potential negative impacts, such as increased stress and anxiety levels, particularly among users with higher engagement rates. These findings echo the concerns raised in existing literature about the psychological effects of intensive social media use.

### *7.2 Implications and Future Directions*

The dual role of social media as both a facilitator of connectivity and a potential source of psychological distress suggests a need for a balanced approach to its usage. It is essential for platform developers, policymakers, and educators to consider these implications, especially when devising strategies to ensure the well-being of young users.

Furthermore, the reliance on algorithm-driven content curation, while enhancing user experience, also necessitates a cautious approach. It is crucial to continually evaluate how these algorithms impact user behavior and well-being, and to explore ways to mitigate any adverse effects.

Given the study's limitations, future research should focus on longitudinal analyses to better understand the long-

term impacts of social media use. Additionally, expanding the demographic scope of research could provide a more comprehensive view of how different generations interact with and are affected by social media platforms.

In conclusion, this study contributes to the growing body of knowledge on social media's impact on society, particularly among Generation Z. As digital platforms continue to evolve, ongoing research and dialogue are vital in navigating the complexities of this digital age, ensuring that social media remains a tool for positive connection and growth.

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