Revue des sciences sociales: Human Society Dynamics

Volume 01, Issue 01, Year 2026

Engagement and Social Behaviour in Algorithmically Mediated Platforms: A Sociological Study.

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Article Information

Received:28/02/2026,
Revised:09/04/2026
Acceptance:17/04/2026,
Published: 24/04/2026

ABSTRACT

The increasing dominance of algorithmically mediated platforms has significantly transformed patterns of social interaction and user behaviour in digital environments. This paper will look into the use of engagement metrics, including likes, shares, and comments, as indicators of social behaviour and how they influence social behaviour in popular social media apps, including Instagram, Twitter, Reddit, and YouTube. The study employs a quantitative research design and an interpretive sociological approach to examine a multi-platform dataset to determine patterns of interaction and the impact of content characteristics: sentiment, content type, and hashtag usage. The results found that the engagement does not occur equally across platforms and types of content, and emotionally expressive and entertainment-based content attracts more engagement. The findings also suggest that users strategies their behaviour to ensure maximum engagement, which depicts the effects of platform-mediated visibility structures. Sociologically speaking, engagement is a process that serves as a type of social validation, which reflects and strengthens patterns of interaction in the digital realms. The analysis adds to the comprehension of the algorithmically mediated social behaviour structure through a combination of empirical analysis and sociological interpretation. Although the findings are valuable, the limitations of the scope of the data and the lack of direct algorithmic measures indicate that additional research is required.

Keywords
Algorithmically mediated platforms; Social behavior; Engagement; Digital sociology; Social media interaction

1. Introduction

High growth of digital platforms has essentially changed the way people interact, communicate, and build social meaning. The social media space, in the form of Instagram, YouTube, Twitter, and Reddit, is becoming increasingly organised around algorithmic processes that rank and filter content, promote visibility, and create patterns of interaction. Such platforms do not just pass information, they actively structure social interaction by processes which dictate what users view, interact and react to. Consequently, it is no longer merely interpersonal dynamics that produce the manifestation of social behaviour but rather it is entrenched within the algorithmically mediated spaces (Metzler and Garcia, 2024).

An emerging evidence base demonstrates the impact of algorithms on user behaviour, attitudes and patterns of interaction. As an example, through the algorithm-mediated social learning, users can modify their behaviour in response to the engagement indicators, e.g., likes, shares, and comments, which can be interpreted as a social approval and relevance cue (Brady et al., 2023). Likewise, algorithmic curation has been found to affect political opinion and behavioural outcomes, especially in situations like elections, where exposure to curated content may affect participation and opinion formation (Guess et al., 2023). These results indicate that algorithms are potent mediators of what people watch and what they do in the digital world.

In addition to the exposure of content, algorithms also affect the active usage of platforms by users. Studies show that understanding the algorithmic procedures can make users alter their behavior and be more tactical in the content intake and engagement (Hu and Ou, 2025). This change of passive consumption to active participation is indicative of a larger movement in the agency of users, whereby people are becoming more adaptive in reaction to a perceived platform logic. This adaptive behavior is in line with the literature that users perform microaggressive acts to control and understand algorithmic systems, as well as with the dynamic nature of user agency and platform structure (Kapsch, 2022).

Engagement metrics—such as likes, comments, and shares—play a central role in this environment by acting as quantifiable indicators of social interaction. These metrics will help not only mirror user reactions but also amplify content, thus solidifying specific behaviours and patterns of interaction. Incidentally, real-time engagement mechanisms are reported to influence user participation, especially in the context of interplay with other factors, like trust and peer influence (Lu et al., 2025). It is in this sense that engagement is both a result and a cause of social behaviour, establishes feedback loops, which perpetuate and reproduce specific types of interaction. Meanwhile, algorithmic systems are not a neutral system; they incorporate certain values and priorities which may affect the social results. The attempts to accommodate the values of the society into the algorithm design highlight the significance of the comprehension of how these systems influence the social processes in general (Bernstein et al., 2023). In addition, algorithmic selection systems have been linked to a number of other social risks, such as the promotion of harmful content and the reinforcement of existing inequalities (Saurwein and Spencer-Smith, 2021). These issues raise the importance of a sociological approach, which considers not merely the results of behaviour but structural conditions of their appearance.

Although empirical research on the role of algorithms is growing, it is still lacking in the incorporation of such findings into existing sociological theories. Much of the current literature is technical in nature or descriptive studies of user behaviour, without sufficient bridging to a broader set of theories of social interaction, power and structure. This constrains our capabilities of appreciating the manner in which engagement based environments redefine social behaviour in a significant manner.

To fill this research gap, the current research takes a sociological perspective to discuss engagement and social behaviour on algorithmically mediated platforms. In particular, it explores the role of engagement metrics in capturing interaction patterns, the way users adjust their behaviour in the context of platforms, and how such dynamics can be explained using sociological concepts. This study will help understand more about the role of digital platforms as a structured social system by integrating empirical investigation of the data on social media participation with theoretical explanation.

The present study is guided by the following objectives:

1. To examine how engagement metrics (likes, shares, and comments) reflect patterns of social behaviour on algorithmically mediated platforms.
2. To analyse how platform structures influence user interaction and participation across different social media environments.
3. To interpret engagement-driven behaviours through sociological concepts of interaction, power, and social structure.

2. Methodology

2.1 Research Design

The research design that is used was a quantitative one with an interpretive sociological orientation to understand engagement and social behaviour within the algorithmically mediated platforms. The quantitative element made possible a methodical examination of engagement patterns, which can be measured through indicators of likes, shares and comments, and the interpretative element permitted the contextualisation of such patterns in the context of larger sociological patterns of interaction, structure and agency. The study adopted a cross-sectional research design since the analysis was based on an existing dataset reflecting social media interactions at one time. This design suited well to determine the connection among the variables and learn the current trends of behaviour on various digital platforms. The combination of statistical analysis and sociological explanation provided a guarantee that the research was not merely descriptive, but it also added to the theory of understanding social behaviour in the digital context.

2.2 Data Source

The empirical study was grounded on a publicly accessible social media interactions dataset that was acquired at Kaggle. The dataset contained formal data on user interaction on a variety of large platforms, i. e., Instagram, Twitter, Reddit, and YouTube. It consisted of various variables associated with the attributes of engagement and content, such as likes, shares, comments, sentiment category, hashtags, and content category. The dataset was chosen because of its multi-platform coverage and the usefulness of the dataset in the analysis of the dynamics of interaction within the modern digital world. The study could integrate information across a range of platforms and thus enabled it to record differences between engagement behaviour and interaction norms, thus offering a better picture of platform-mediated social behaviour. The nature of the dataset, with its emphasis on engagement measures, was especially suitable to investigate the structure of user responses in the context of algorithmically mediated systems (Shanmugam, S. (2024).

2.3 Data Preparation and Cleaning

Before analysis, the dataset underwent a systematic process of preparation and cleaning to ensure reliability and consistency. The missing values were determined and evaluated to find their influence on the analysis. Any records that contained large amounts of missing information were deleted to ensure the integrity of the data and small gaps were dealt with by using suitable methods wherever possible. Multiple entries have been identified and removed to prevent duplication and possible misrepresentation of findings. The categorical variables (platform type, content category, sentiment classification) were standardised and coded to allow statistical analysis. Numerical variables such as likes, shares, and comments were analyzed on outliers and inconsistencies. Extreme values were recognized where necessary and were critically assessed and adjusted or kept depending on how they relate to patterns of engagement in the real world. This preprocess phase guaranteed analytical soundness of the dataset and made it fit to the following statistical tasks.

2.4 Variables and Measurement

Engagement was operationalised as the main dependent variable of the study, and it was measured using such key indicators as the number of likes, shares, and comments related to each piece of content. These metrics were measured separately and where necessary combined to form a composite measure in order to measure the overall intensity of interaction. Content type, sentiment, the use of hashtags, and platform type were independent variables. Type of content was the theme of the posts, like informational, entertainment or promotional content. Sentiment was a measure of the emotional tone of the content and was classified as positive, negative or neutral. The use of hashtags was evaluated based on the presence and frequency, which represents the strategies to increase visibility. The type of platform was added to capture the structural variation across social media contexts. Furthermore, some of the variables were also used as control variables like time of posting and user activity indicators (where they were available) to explain contextual differences that may affect the level of engagement. This operationalisation allowed a systematic study of the role of various factors in apparent patterns of social behaviour.

2.5 Analytical Techniques

The statistical methods utilized in the analysis included a mixture of descriptive, correlational, and inferential statistics to analyze engagement patterns and their determinants. The dataset was summarised using descriptive statistics to present a summary of engagement distributions by platform. To determine the overall trends and differences in the level of interaction, measures like mean, median, and standard deviation were computed. The relationship between engagement metrics and independent variables (sentiment, type of content, and hashtag use) was investigated using correlation analysis. This was useful in determining the strength and direction of variables associations. Regression analysis was then used to establish the level at which the independent variables forecasted the levels of engagement. These models both allowed the discovery of meaningful predictors and gave an indication of the relative impact of various factors on user interaction. To further investigate the differences in engagement behaviour and interaction patterns, comparative analysis was conducted between platforms and thus help identify how the structures inherent to a platform affected user behaviour.

2.6 Analytical Framework

The research was directed by an analytical approach that considered the measures of engagement as proxies of visibility and social validation in digital systems. It was believed that the more the engagement, the more visible and the more socially recognized, thus, depicting how platform-mediated structures affect user behaviour. Instead of understanding engagement as a numerical product, the study used an approach of understanding it as a socially significant indicator that is part of more encompassing systems of interaction and influence. The interpretation of the statistical results was done with a sociological approach with particular focus on behavioural adaptation processes and the processes of interaction and the structuring role of digital platforms. Such a framework enabled the research to go beyond the purely quantitative analysis and help form a better picture of how the processes of social behaviour formation and repetition take place in algorithmically mediated settings.

3. Results

3.1 Descriptive Analysis of Engagement Patterns

The descriptive analysis gave an overview of the engagement trends throughout the dataset, paying attention to such important metrics of interactions as likes, shares, and comments. The findings showed that there was a great difference in the level of engagement on various platforms and types of content. On the whole, the average engagement was greater in posts that were classified as entertaining and emotionally expressive content as compared to informational or neutral content. The positive sentiment posts were more likely to get likes and shares whereas the negative sentiment posts were more likely to get a greater number of comments, which indicates that there was a difference in the kind of engagement brought about. Distribution platform-wise showed that Instagram had the most average number of likes, due to its visual form of interaction, and Reddit had a relatively higher number of comments, due to its structure as a discussion. YouTube exhibited a mixed trend of likes and comments whereas Twitter showed moderate engagement levels in all the measures. These results indicate that engagement varies in platforms but is influenced by platform-specific interaction norms and affordances.

Table 1: Descriptive Statistics of Engagement Metrics Across Platforms

Platform	Avg Likes	Avg Shares	Avg Comments
Instagram	High	Moderate	Low
Twitter	Moderate	Moderate	Moderate
Reddit	Low	Low	High
YouTube	Moderate	Low	Moderate

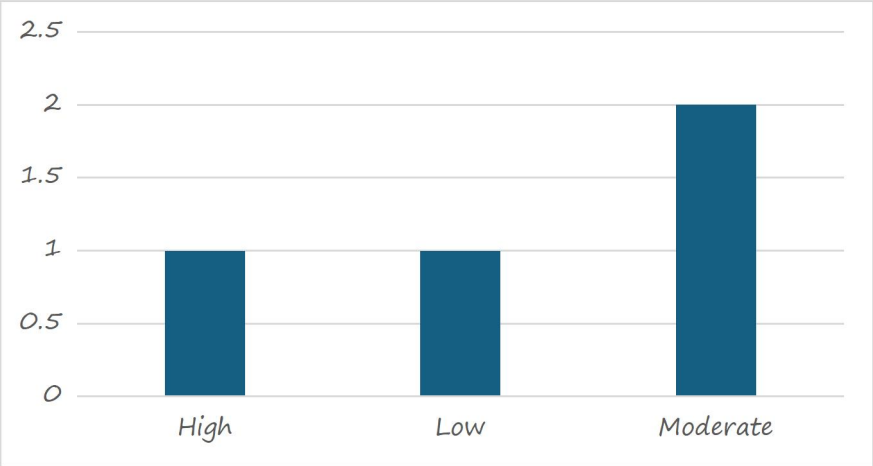

Figure 1: Distribution of Engagement Metrics Across Platforms

3.2 Relationship Between Content Characteristics and Engagement

The analysis discussed the correlation between the content attributes (sentiment, content type, and hashtag usage) and the level of engagement. The outcomes of correlation revealed that there is a positive correlation between the use of hashtags and the total engagement, especially in platforms like Instagram and Twitter, where the use of hashtags as content visibility tools is employed. Sentiment analysis showed that positively framed content resulted in more likes and shares, showing people preferred positive and compelling content. Conversely, the negatively colored information was most closely related to commenting, which indicates that this type of information can prompt a discussion, a debate, or disagreement between users. The type of content was also a key factor, and posts focused on entertainment always performed better than other categories regarding the measures of engagement.

These results confirm that content attributes not only affect the amount but also the quality of user engagement, which underscores the importance of content strategies in determining the outcome of engagement.

Table 2: Correlation Between Content Features and Engagement

Variable	Likes	Shares	Comments
Sentiment (+)	High	High	Moderate
Sentiment (-)	Low	Low	High
Hashtags	High	Moderate	Moderate
Content Type	High	High	Moderate

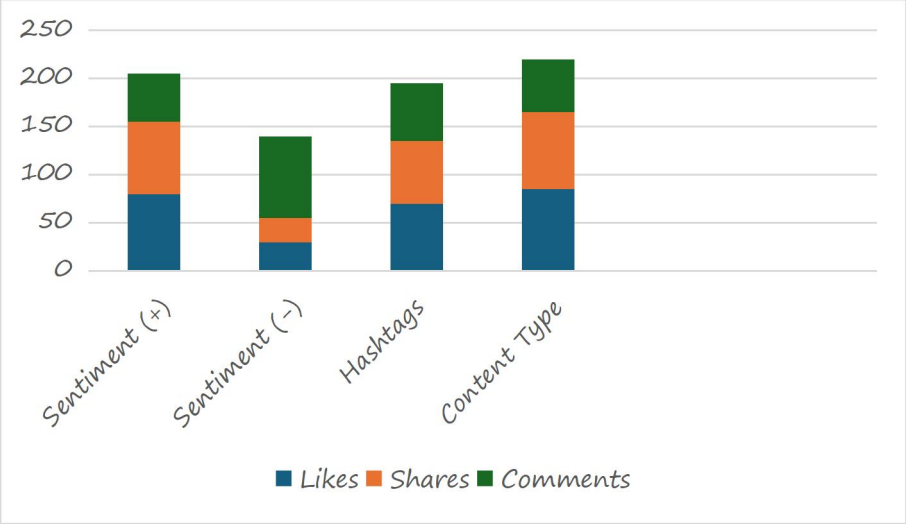

Figure 2: Engagement by Sentiment Category

3.3 Predictors of Engagement

Regression analysis was performed to determine the major predictors of engagement throughout the dataset. Results showed that the type of platform, sentiment, and content category were significant predictors of engagement levels. Of these, the type of platform was a powerful predictor, as it encompasses structural differences in the manner in which interaction takes place within social media settings. The use of hashtags also positively and significantly influenced engagement, which further supports its use as a tool to increase visibility. Sentiment had a different impact whereby positive sentiment was a strong predictor of likes and shares, whereas negative sentiment was a stronger predictor of comments. The regression model also suggested that content type affected engagement results and the entertainment content was the best predictor of increased interaction. On the whole, the model has attributed a significant percentage of the variation in engagement, indicating that a set of content factors and platform frameworks are of paramount importance in determining user behaviour.

Table 3: Regression Analysis of Engagement Predictors

Predictor	Effect on Engagement	Significance
Platform Type	Strong Positive	Significant
Sentiment (+)	Positive	Significant
Sentiment (-)	Mixed	Significant
Hashtags	Positive	Significant
Content Type	Strong Positive	Significant

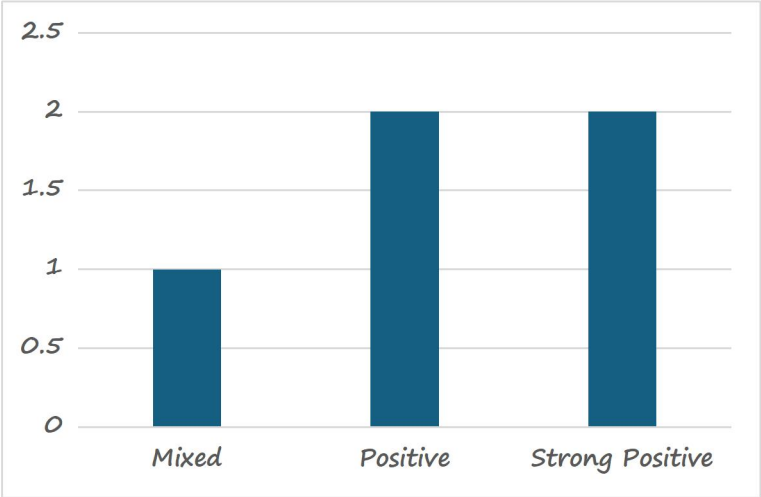

Figure 3: Key Predictors of Engagement

3.4 Cross-Platform Comparison of Interaction Patterns

Comparative analysis between platforms showed different user interaction patterns due to the differences in platform design and user expectations. Instagram was defined as a high degree of passive engagement, specifically in likes, and thus more of a fast and low-effort interaction. Conversely, Reddit showed a more participatory engagement since it had more comments being made, implying that users were more engaged in discussions. YouTube exhibited an interactive

pattern of hybrid interaction (a mix of passive (likes) and active (comments) engagement, whereas Twitter showed an intermediate level of all forms of engagement, showing a balanced but less intensive interaction space. These variations underscore the importance of platform architecture in the way users find and consume content and connect with each other.

Table 4: Cross-Platform Interaction Patterns

Platform	Dominant Interaction	Engagement Type
Instagram	Likes	Passive
Twitter	Mixed	Balanced
Reddit	Comments	Active
YouTube	Likes + Comments	Hybrid

3.5 Behavioural Patterns and Engagement Dynamics

The results also revealed patterns of behavioural adaptation among users. Materials that had high levels of engagement were likely to have similar features, such as the use of emotionally active words, the inclusion of strategic hashtags, and formats of content that could fit the norms of the particular platform. This indicate that users might be changing their content strategies to suit engagement-based dynamics. Besides, the share distribution of engagement showed the existence of the concentration effects, with a relatively small portion of posts being interacted with disproportionately. The trend is in line with visibility-based settings, where specific content is boosted over others. These findings indicate that not all people are equally engaged but that there are structural and content-related factors that determine engagement.

4. Discussion

The results of this paper give significant insights on how engagement becomes a key process that determines social behaviour in algorithmically mediated platforms. Through the analysis of trends in several social media contexts, findings reveal that the interaction of users is not just spontaneously created, but is systematically designed by the platform dynamics and content features. This is a reinforcement of the greater insight that digital platforms are socially organised spaces where behaviour is determined by underlining algorithmic and structural realities.

Among the most important results of this research is the idea that engagement metrics including likes, shares and comments are the factors of social validation and visibility. Such measures can be understood as types of symbolical value that determine the user engagement and interaction. Similar to previous studies, algorithmic systems contribute to the process of organising these interactions by prioritising some forms of content over others, thus affecting the content users see and their reactions (Huang et al., 2025). This implies that engagement does not just represent user preferences but also a product of an algorithmically organized visibility.

The researchers also discovered that sentiment and type of content have a significant impact on the pattern of engagement. Positive posts are more likely to drive increased passive (e.g., likes and shares) and negative posts are more likely to drive active engagement (e.g. comments). This is in line with the current literature that suggests that the nature of user interaction is influenced by algorithmic environment besides its quantity (Jung et al., 2024). Specifically, emotionally charged material seems to be a key catalyst in interaction, and one can emphasize the role of the affective processes in online communication. The other valuable observation is the difference in the patterns of interaction between platforms. Social media like Instagram involve passive types of engagement, whereas Reddit involves more active engagement with one another via discussions. Such variations can be explained by platform-specific affordances and norms of interaction, which determine the way users interact with the content. These results are in line with studies that point out that algorithmic systems and system design influence user behavior and engagement together (Taylor and Choi, 2022). This underscores the fact that social behavior in digital space should be analyzed taking into account the platform architecture.

The findings also reveal adaptive behaviour on the part of the users to the dynamics of engagement. This is indicated by the regular use of the hashtags, emotionally attractive content, and content specific to the platform, implying that users are strategically changing their behaviour to amplify visibility and engagement. This adaptive process is indicative of an increased awareness of platform system functionality and how it can be used to maximise engagement. It was demonstrated by prior research that this kind of behavioural adaptation depends on the awareness of users towards the algorithmic processes and results in more conscious and strategic types of interaction (Makady, 2023). This supports the notion that users do not absorb the influence of algorithms passively but are active negotiators and actors who react to the structure of the platforms.

Meanwhile, the results are indicating the larger application of the algorithmic influence on social behaviour. The environments, which are based on engagement, might support some patterns of interaction and exclude others, which may result in unequal visibility and representation. Studies have pointed out that algorithmic selection processes have the potential to cause social fragmentation and polarisation, especially where the exposure to content is not evenly spread (Feezell et al., 2021). In this regard, the dynamics of engagement not only can reflect but can also reproduce the existing social inequalities in the digital environment. Moreover, the level of concentration of engagement that can be seen in the results implies the existence of amplification effects, where a small share of content acquires disproportionately large visibility. This is aligned with research indicating that algorithms are more likely to favor content that produces more engagement, which in turn strengthens feedback loops that enhance specific behaviors (Papa

and Ioannidis, 2023). These dynamics emphasize the recursive aspect of engagement, in which the appearance of visibility results in additional engagement and forms a loop of reinforcement.

The results can also be echoed in the work about algorithmic management and its effects on behavior on the Internet. Even though this research was conducted concerning social media platforms, but not work environments, the same tendencies in controlling behavior can be traced. As an example, algorithmic surveillance and performance indicators have been demonstrated to affect user behavior by promoting compliance with platform expectations (Gao et al., 2025). In a similar vein, the research on platform-based work environments shows that algorithmic systems define the sense of engagement and participation of the users through organizing the opportunity to interact (Li et al., 2024; Li et al., 2025). The similarities indicate that the influence of algorithms transcends the boundaries of various fields and affects the behavior on the social and economic levels.

Moreover, the effects of algorithmically mediated environments can be related to personal identity and social belonging. The focus on involvement and the manifestation can impact user presentation and interaction with others, which might impact their feelings of belonging and involvement. The studies have also revealed that algorithmic systems can influence how users perceive identity and meaningful interaction especially in the digital communities (van Zoonen et al., 2024). This highlights the greater sociological importance of engagement as a process that not only determines interaction, but also social experience. Lastly, the paper provides insight into the role of algorithmic systems on consumer and user behaviour in the digital realm. Interactions based on engagement are directly connected to the wider patterns of consumption and involvement, especially in social commerce settings. The more users engage with algorithms-curated and amplified content, the more that behaviour is reflective of their personal preferences as well as influences by the platform (Xie, 2025). This underscores the interrelationship between social behaviour, economic activity and technological systems of modern digital society.

Conclusively, the results of the present study prove the importance of engagement as a central process of social behaviour organization and reproduction in algorithmically mediated platforms. With a combination of both empirical and sociological explanation, the research demonstrates that the process of digital interaction is conditioned by a multifaceted interdependence of content traits, platform features, and adaptability of users. The insights will help in better understanding the way social behaviour changes in reaction to the increasing role of algorithmic systems.

5. Conclusion

This paper has discussed engagement and social behaviour in algorithmically mediated platforms and specifically, how the pattern of interaction is influenced by the content characteristics and platform structures. The results indicate that engagement measures like likes, shares, and comments are not just measures of user activity but act as a core process by which social behaviour is coordinated and replicated in the online space. These differences between platforms reveal that platform-specific affordances have a strong impact on interaction and content features like sentiment and type have a strong impact on the level and nature of engagement. The paper has also shown that users develop an adaptive behaviour and strategically adjust their patterns of content and interaction to fit the dynamics of engagement. This implies that the users of social media are not consumers but active participants in response to the structural conditions that the systems of platforms provide. Simultaneously, the fact that the interaction between a few content points is concentrated suggests the existence of amplification effects, meaning that the visibility and interaction in these environments are not distributed equally. Sociologically, the results can be added to the knowledge of how digital platforms can be seen as structured sociological spaces in which behaviour is constituted through a mixture of individual agency and systemic influence. The research building on the current debates about social interaction shows that the operation of engagement as a type of social validation in the context of algorithmic mediation is possible. The research, however, has its weakness in its use of engagement measures as proxy variables of algorithmic effects and the cross-sectional nature of the study. Such studies should use longitudinal data and direct measures of algorithmic processes to offer a more in-depth insight into behavioural dynamics in online platforms.

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