UNIVERSITI MALAYA
ACADEMY OF ISLAMIC STUDIES

International Journal of Shariah in Economics and Governance (IJSEG)

e-ISSN: XXXX-YYYY
Issue: Vol. 1 No. 1
Page: 1-12

THE IMPACT OF SOCIAL MEDIA ON POLITICAL POLARIZATION: A CASE STUDY OF THE 2025 U.S. PRESIDENTIAL ELECTION

MOHAMMAD HASAN KABIR[1]
MOHAMMAD MOHIUDDIN[2]

Received: January 20, 2026 Revised: April 20, 2026 Published: June 15, 2026
DOI/URL: https://ejournal.um.edu.my/index.php/ijseg/article/view/72094/20129

ABSTRACT:

Social media has fundamentally altered the landscape of political communication, creating unprecedented opportunities for public engagement while simultaneously deepening ideological divides. This study investigates how digital platforms contribute to political polarization by reinforcing echo chambers, amplifying misinformation, and promoting extreme content. Focusing on the 2025 U.S. Presidential Election as a primary case study, we analyze the growing influence of AI-generated deepfakes, hyper-targeted political advertising, and sophisticated foreign interference campaigns. Comparative analysis of elections in the UK, India, and Brazil reveals consistent patterns of social media-driven polarization across different democratic contexts. The research employs multiple theoretical frameworks, including agenda-setting theory and networked propaganda models, to explain how algorithmic design choices and user behavior interact to exacerbate political divisions. Our findings demonstrate that platform architectures prioritizing engagement inadvertently promote inflammatory content, while the rapid evolution of generative AI tools presents new challenges for electoral integrity. Importantly, this study moves beyond diagnosis to propose actionable solutions. We evaluate the potential of algorithmic transparency measures, digital literacy initiatives, and smart regulatory approaches to mitigate polarization while preserving the democratic benefits of online discourse. The paper argues for a multi-stakeholder approach involving platforms, policymakers, and civil society to address this critical challenge to democratic governance in the digital age.

Keywords: Political polarization, social media algorithms, misinformation, artificial intelligence, microtargeting, comparative politics.

1. INTRODUCTION

Political polarization has become one of the most critical challenges facing modern democracies. What began as healthy ideological competition has transformed into deep societal divisions, where opposing groups increasingly view each other not just as political opponents but as existential threats. This dangerous shift has been significantly accelerated by the rise of social media platforms, which have fundamentally altered how information spreads and how political identities form.

The transformation of our political landscape through digital platforms represents a paradox. On one hand, social media has democratized political participation, giving voice to previously marginalized groups and enabling rapid mobilization around important issues. On the other hand, these same platforms have created ideal conditions for polarization to flourish through their very design. Features like personalized algorithms, instantaneous sharing, and engagement-based content promotion have inadvertently created echo chambers where extreme views are amplified while moderate perspectives are drowned out.

[1] Mohammad Hasan Kabır, Corresponding author, Student at the Department of Political Science and Public Administration, Faculty of Economics and Administrative Sciences, Selçuk University Turkey, Email: hassanray2030@gmail.com, ORCID iD: 0009-0008-3207-0616
[2] Mohammad Mohıuddın, Co-author, Assistant Professor at the Faculty of Abdulhamıd Abusulayman Kullıyyah of Islamıc Revealed Knowledge and Human Scıences, International Islamic University Malaysia (IIUM), Email: mmohiuddin@iium.edu.my, ORCID iD: 0009-0008-7312-8933

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Recent election cycles demonstrate the tangible consequences of this digital polarization. The 2016 U.S. election revealed how easily foreign actors could exploit social media to spread disinformation.[3] By 2020, domestic groups had mastered these tactics, weaponizing platforms to spread conspiracy theories about voting processes and public health measures. As we examine the 2025 U.S. Presidential Election, we see these trends reaching new heights with the incorporation of sophisticated AI tools that can generate convincing fake content at unprecedented scale.

This phenomenon extends far beyond American politics. The Brexit campaign showed how social media could be used to spread simplified, emotionally charged narratives that override complex policy considerations. In India and Brazil, we've seen how platforms can become tools for spreading religious and ethnic tensions under the guise of political discourse. These global examples suggest we're facing not isolated incidents but a fundamental challenge to how democracies function in the digital age. This paper seeks to answer the following research questions:

1. How does social media contribute to political polarization?
2. What role did social media play in the 2025 U.S. Presidential Election?
3. What strategies can be implemented to mitigate the negative effects of social media-driven polarization?

Our analysis will combine examination of platform architectures, content dissemination patterns, and case studies of recent elections. The goal is to provide a comprehensive understanding of how our information ecosystems are shaping our democracies, and what might be done to steer this influence in more constructive directions.

The urgency of this investigation cannot be overstated. As political discourse becomes increasingly mediated through profit-driven platforms designed to maximize engagement rather than understanding, we risk entering a new era of democratic instability. This paper represents an effort to map this emerging terrain and identify paths toward healthier digital public spheres.

2. THEORETICAL FRAMEWORK

To understand the relationship between social media and political polarization, this study draws on key theories in political communication and media effects. These theories explain how digital platforms shape political attitudes, reinforce biases, and influence democratic discourse.

2.1. Agenda-Setting and Framing Theory

Agenda-setting theory McCombs & Shaw (1972) suggests that the media influences what issues the public perceives as important. Social media has expanded this phenomenon by allowing users, influencers, and political actors to set political agendas outside traditional journalism. Unlike traditional media, where gatekeepers filter content, social media empowers users to curate and amplify partisan content, often reinforcing ideological biases.[4]

Framing theory Entman (1993) further explains how political issues are presented and interpreted. Politicians, activists, and media outlets use specific language and imagery to frame narratives in ways that appeal to their target audiences.[5] For example, the framing of election integrity as a national security issue versus a civil rights issue depends on political ideology, influencing how voters perceive the legitimacy of election results.

2.2. Selective Exposure and Confirmation Bias

[3] Howard, Philip N., Bharath Ganesh, Dimitra Liotsiou, John Kelly, and Camille François. *The IRA, Social Media and Political Polarization in the United States, 2012–2018.* Oxford, UK: Project on Computational Propaganda, 2018. https://comprop.oii.ox.ac.uk/research/ira-political-polarization/.

[4] McCombs, Maxwell E., and Donald L. Shaw. *"The Agenda-Setting Function of Mass Media."* Public Opinion Quarterly 36, no. 2 (1972): 176–87, https://doi.org/10.1086/267990.

[5] Entman, Robert M. *"Framing: Toward Clarification of a Fractured Paradigm."* Journal of Communication 43, no. 4 (1993): 51–58, https://doi.org/10.1111/j.1460-2466.1993.tb01304.x.

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Selective exposure theory Stroud (2008) posits that individuals prefer news and information that align with their pre-existing beliefs. This phenomenon is exacerbated by social media algorithms that tailor content based on users' engagement patterns.[6] The result is ideological echo chambers where opposing viewpoints are filtered out, deepening partisan divisions.

Confirmation bias Nickerson (1998) further reinforces this dynamic, as individuals tend to accept information that supports their beliefs while dismissing contradictory evidence.[7] This leads to increased skepticism toward mainstream media and scientific consensus, as seen in debates on climate change, vaccination, and election fraud.

2.3. The Spiral of Silence and Group Polarization

The spiral of silence theory Noelle-Neumann (1974) suggests that individuals with minority opinions may avoid expressing their views due to fear of social isolation.[8] On social media, this effect is amplified as users are more likely to engage with politically homogenous communities, reinforcing dominant narratives within their ideological circles.

Group polarization Sunstein (2001) explains why exposure to like-minded individuals leads to more extreme political positions. Online discussions tend to amplify partisan opinions, making moderate views less visible.[9] Research indicates that individuals engaging in political discussions on platforms like Reddit and Facebook become more radicalized over time due to reinforcement from their in-group.

2.4. Networked Propaganda and Computational Politics

Benkler et al. (2018) introduced the concept of networked propaganda, where coordinated disinformation campaigns use social media to manipulate public perception. Computational propaganda, including bots, deepfakes, and AI-generated content, has increasingly influenced political discourse, particularly in elections.[10] The use of microtargeted ads, as seen in the 2020 and 2024 U.S. elections, exemplifies how digital tools are weaponized to influence voter behavior.[11]

The next section explores how these theoretical mechanisms manifest in real-world political environments, particularly through the spread of echo chambers, misinformation, and algorithmic amplification of extreme content.

3. MECHANISMS OF SOCIAL MEDIA-DRIVEN POLITICAL POLARIZATION

3.1. Echo Chambers and Filter Bubbles

Social media algorithms prioritize content that maximizes user engagement, often creating filter bubbles where individuals are primarily exposed to content aligned with their existing beliefs.[12] This phenomenon limits exposure to diverse perspectives, reinforcing ideological homogeneity.

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[6] Stroud, Natalie Jomini. *"Media Use and Political Predispositions: Revisiting the Concept of Selective Exposure."* Political Behavior 30, no. 3 (2008): 341–66, https://doi.org/10.1007/s11109-007-9050-9.

[7] Nickerson, Raymond S. *"Confirmation Bias: A Ubiquitous Phenomenon in Many Guises."* Review of General Psychology 2, no. 2 (1998): 175–220, https://doi.org/10.1037/1089-2680.2.2.175.

[8] Noelle-Neumann, Elisabeth. *"The Spiral of Silence: A Theory of Public Opinion."* Journal of Communication 24, no. 2 (1974): 43–51, https://doi.org/10.1111/j.1460-2466.1974.tb00367.x.

[9] Sunstein, Cass. *"Republic. com princeton."* Telhami, Shibley: 2010 Arab Public Opinion Poll (conducted by the University of (2001).

[10] Benkler, Y., R. Faris, and H. Roberts. *Network Propaganda: Manipulation, Disinformation, and Radicalization in American Politics.* Oxford: Oxford University Press, 2018, https://doi.org/10.1093/oso/9780190923624.001.0001.

[11] Hasan, Kazi Mehedi. *"Personalized Politics in the Digital Age: How Media Exposure and Social Media Micro Targeting Impact Public Agenda Diversity and Widen Partisan Polarization in US Presidential Elections (2012–2024)."* PhD diss., Southern Illinois University at Carbondale, 2026.

[12] Pariser, Eli. *The filter bubble: What the Internet is hiding from you.* penguin UK, 2011.

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A study by Bakshy et al. (2015) found that Facebook users were significantly more likely to see politically congruent content due to algorithmic curation.[13] Similarly, research by Flaxman et al. (2016) shows that users relying on social media for news are less likely to encounter opposing viewpoints compared to those who consume news through traditional media.[14]

Echo chambers contribute to increased ideological entrenchment, as individuals become more convinced of their own perspectives while dismissing alternative viewpoints. This reinforcement of beliefs often leads to declining trust in institutions, as exposure to partisan narratives fosters skepticism toward mainstream media and government bodies. Additionally, the lack of diverse discourse reduces political compromise, making societies more polarized and resistant to policy negotiations.

3.2. The Spread of Misinformation and Fake News

False information spreads more rapidly on social media than factual news Vosoughi et al., (2018) due to several key factors. Misinformation often triggers strong emotional responses, increasing its shareability.[15] Additionally, algorithmic incentives prioritize viral content, regardless of its accuracy, further amplifying its reach. Political motives also play a role, as both domestic and foreign actors exploit social media to manipulate public opinion and shape narratives to their advantage.

During the 2024 U.S. Presidential Election, misinformation regarding ballot counting, voter fraud, and AI-generated deepfake videos of candidates intensified partisan divides. Similarly, in India's 2019 election, WhatsApp was used to spread false narratives about opposition leaders, demonstrating the global impact of misinformation campaigns.[16]

3.3. The Role of Social Media Algorithms in Polarization

Social media companies profit from engagement-driven algorithms, which prioritize content that generates strong reactions. Studies show that highly emotional and extreme content, whether left-wing or right-wing, receives more interactions than moderate or neutral content.[17]

Key algorithmic factors contribute to polarization by shaping the content users engage with online. Recommendation systems, such as those on YouTube, have been criticized for steering users toward extreme political content. Virality bias further exacerbates this issue, as sensationalist headlines and conspiracy theories spread more rapidly than factual reporting.

Additionally, selective amplification ensures that certain political ideologies receive disproportionate visibility, leading to asymmetrical polarization. As the 2025 U.S. Presidential Election approaches, the rise of sophisticated AI-driven misinformation is expected to pose even greater challenges to maintaining a well-informed electorate.

4. CASE STUDIES OF SOCIAL MEDIA-INDUCED POLITICAL POLARIZATION

To illustrate how social media exacerbates political polarization, this section examines key case studies, including the 2025 U.S. Presidential Election, the 2016 and 2024 U.S. elections, Brexit, and elections in India and Brazil. These cases demonstrate the global impact of digital political manipulation,

[13] Bakshy, E., S. Messing, and L. A. Adamic. *"Exposure to Ideologically Diverse News and Opinion on Facebook."* Science 348, no. 6239 (2015): 1130–32, https://doi.org/10.1126/science.aaa1160

[14] Flaxman, S., S. Goel, and J. M. Rao. *"Filter Bubbles, Echo Chambers, and Online News Consumption."* Public Opinion Quarterly 80, no. 1 (2016): 298–320, https://doi.org/10.1093/poq/nfw006.

[15] Vosoughi, Soroush, Deb Roy, and Sinan Aral. *"The Spread of True and False News Online."* Science 359, no. 6380 (2018): 1146–51, https://doi.org/10.1126/science.aap9559.

[16] Akbar, Syeda Zainab, Anmol Panda, and Joyojeet Pal. 2022. *"Political Hazard: Misinformation in the 2019 Indian General Election Campaign."* South Asian History and Culture 13 (3): 399–417, doi:10.1080/19472498.2022.2095596.

[17] Tucker, Joshua A., Andrew Guess, Pablo Barberá, Cristian Vaccari, Alexandra Siegel, Sergey Sanovich, Denis Stukal, and Brendan Nyhan. *Social Media, Political Polarization, and Political Disinformation: A Review of the Scientific Literature.* Menlo Park, CA: William and Flora Hewlett Foundation, 2018, https://doi.org/10.2139/ssrn.3144139.

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highlighting patterns in misinformation campaigns, algorithmic amplification of partisan content, and foreign interference.

4.1. The 2016 and 2024 U.S. Presidential Elections: Foundations of Social Media Polarization

4.1.1. 2016 Election: The Rise of Political Misinformation

The 2016 U.S. Presidential Election marked a turning point in digital political manipulation, with Russian interference primarily targeting American voters through Facebook and Twitter. This effort sought to deepen polarization by creating divisive content on sensitive issues such as race relations, immigration, and gun rights. Additionally, bots and troll farms were deployed to amplify extremist narratives, further entrenching ideological divides. The spread of fake news, including the infamous "Pizzagate" conspiracy Benkler et al. (2018), exemplified how misinformation was weaponized to influence public opinion and disrupt democratic processes.[18]

Research by the Pew Research Center (2017) found that 64% of Americans believed fake news had caused confusion about basic facts in the 2016 election. The Cambridge Analytica scandal further revealed how personal data was used to micro-target voters with hyper-partisan messaging.[19]

4.1.2. 2024 Election: The Surge of AI-Generated Misinformation

The 2024 U.S. Presidential Election witnessed an unprecedented surge in AI-generated political content, with deepfake videos, manipulated images, and synthetic news articles spreading misinformation on a massive scale. AI-generated attack ads falsely depicted candidates in compromising situations, further fueling political tensions. Misinformati on campaigns targeted mail-in ballots and voter suppression tactics, undermining public trust in the electoral process.[20]

Additionally, reports from both conservative and progressive groups highlighted concerns over algorithmic suppression of political dissent, raising questions about the role of technology in shaping democratic discourse. Social media's role in the January 6, 2021, Capitol attack had already demonstrated its potential to incite political violence, and experts warned that unchecked AI-generated content in 2024 further eroded public trust in democratic institutions.[21]

4.2. The 2025 U.S. Presidential Election: The Role of Social Media in Political Polarization

The 2025 U.S. Presidential Election is unfolding in a political environment even more polarized than previous elections. Three major digital trends are shaping this election cycle:

4.2.1. The Rise of AI-Driven Misinformation

AI-generated content has become more sophisticated, making it difficult to distinguish real news from fabricated narratives. Several instances of deepfake videos, falsely depicting candidates making inflammatory statements, have already surfaced. Unlike previous elections, these deepfakes are more realistic and harder to debunk in real time.

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[18] Benkler, Y., R. Faris, and H. Roberts. *Network Propaganda: Manipulation, Disinformation, and Radicalization in American Politics.*

[19] Cadwalladr, C. *"Cambridge Analytica a Year On: 'A Lesson in Institutional Failure.'"* The Guardian, July 20, 2019. https://www.theguardian.com/uk-news/2019/mar/17/cambridge-analytica-year-on-lesson-in-institutional-failure-christopher-wylie

[20] Ibrahim, Nourhan Tosson, and Nada Adel Attia. *"The impact of disinformation generated by AI on democracy case studies: the US presidential elections in 2016 & 2024."* Review of Economics and Political Science 11, no. 3 (2026): 186-201, doi: https://doi.org/10.1108/REPS-12-2024-0104.

[21] Werner, Marcus Barrett. *"AI-Generated and Distributed Reality: How AI systems Democratized and Incentivized Visual Disinformation During the 2024 US Election."* PhD diss., Concordia University, 2026,

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A study by the Stanford Internet Observatory (2025) found that AI-generated misinformation was shared 3x more frequently than verified political news, indicating that engagement-driven algorithms continue to prioritize sensationalist content over factual reporting.[22]

4.2.2. The Use of Personalized Microtargeting

Political campaigns have increasingly leveraged behavioral data analytics to refine their messaging at an individual level. Unlike traditional advertisements, microtargeting enables campaigns to deliver highly personalized ads that align with specific ideological biases. By exploiting psychological vulnerabilities, these ads often emphasize emotions such as fear, resentment, or loyalty to influence voter behavior.

Additionally, selective narratives are strategically amplified to reinforce polarization, further deepening divisions within the electorate. Platforms like Meta (Facebook and Instagram), X (formerly Twitter), and TikTok now offer hyper-personalized content curation, meaning voters are often unaware that others receive drastically different political messages.[23]

4.2.3. The Influence of Foreign and Domestic Actors

Governments and non-state actors have continued to exploit social media for political gains. The FBI and U.S. Cyber Command have warned about potential foreign interference from Russia, China, and Iran, leveraging bot networks and misinformation campaigns.[24]

Additionally, domestic groups have increasingly used similar tactics to target political opponents. The result is a political landscape where polarization is fueled not just by ideological differences but by digital information warfare.

4.3. Brexit and the Role of Digital Media

The 2016 Brexit referendum serves as a prominent example of social media-driven polarization, mirroring the dynamics of the 2016 U.S. election.[25] Misinformation campaigns played a crucial role in shaping public opinion, with one of the most infamous claims being the widely debunked assertion that the UK sent £350 million per week to the EU. Echo chambers on platforms like Facebook further deepened divisions, as Remain and Leave supporters rarely engaged with opposing viewpoints, reinforcing their own biases.[26]

Additionally, Cambridge Analytica's data-driven microtargeting influenced key voter segments by delivering highly tailored messages designed to sway undecided voters. By the time of the 2019 UK General Election, social media had intensified political polarization even further, with platforms like WhatsApp being used to disseminate misleading narratives about Brexit's economic impact, solidifying ideological divides and complicating public discourse.[27]

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[22] Kurlander, Jacob A., Pedro H. Bernardinelli, Megan E. Schwamb, Mario Jurić, Joseph Murtagh, Colin Orion Chandler, Stephanie R. Merritt et al. *"Predictions of the LSST solar system yield: Near-Earth objects, main belt asteroids, Jupiter Trojans, and trans-Neptunian objects."* The Astronomical Journal 170, no. 2 (2025): 99.

[23] Papathanassopoulos, Stylianos, and Iliana Giannouli. *"Political communication in the age of platforms."* Encyclopedia 5, no. 2 (2025): 77, https://doi.org/10.3390/encyclopedia5020077.

[24] Jones, Seth G. Three dangerous men: Russia, China, Iran and the rise of irregular warfare. WW Norton & Company, 2021,

[25] Solovyeva, Alevtina, Betti Marie Peterson, Carl Frederick Liles, Yerkebulan Sairambay, Jonathan Darvish-Kojori, Rodion Krupin, and Vladimir Sazonov. *"Struggling Across Screens: Production and Consumption, Threats and Opportunities in Central Asia's Mediasphere."* (2026), https://aasiakeskus.ut.ee/sites/default/files/2026-05/Central%20Asia%20Mediasphere_MAY%202026.pdf.

[26] Nelson, Nick. *"From the Agora to the Algorithm: Aristotle's rhetoric as a framework for understanding social media persuasion*: *a thesis presented in partial fulfilment of the requirements for the degree of Doctor of Philosophy in Psychology at Massey University, Albany, New Zealand."* (2026), https://mro.massey.ac.nz/handle/10179/74382.

[27] Hove, Mads Fuglsang. *"The Nature and Consequences of Online Political Microtargeting."* PhD diss., Mads Fuglsang Hove, 2025, https://pure.uva.nl/ws/files/238383078/Thesis.pdf.

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4.4. India's 2019 and 2024 Elections: The Weaponization of WhatsApp

India, the world's largest democracy, has experienced intense political polarization fueled by misinformation spread through platforms like WhatsApp and Facebook. During the 2019 general elections, political parties increasingly relied on AI-generated content to manipulate voter perception, crafting misleading narratives that shaped public opinion. Religious and nationalist propaganda played a significant role in deepening societal divisions, as parties leveraged identity-based messaging to consolidate support while alienating opposition groups. Additionally, WhatsApp group coordination became a powerful tool for disseminating viral misinformation, often targeting opposition figures with fabricated stories designed to discredit them. This strategic use of digital platforms not only influenced electoral outcomes but also contributed to long-term social fragmentation, reinforcing ideological divides across the country.

In the 2024 Indian elections, deepfake technology was widely used to create fake videos of opposition leaders making controversial statements. A study by the Indian Institute of Technology (2024) found that nearly 40% of viral political content on WhatsApp contained false or misleading information, highlighting the platform's role in polarization.[28]

4.5. Brazil's 2018 and 2022 Elections: The Impact of YouTube and TikTok

Brazil's elections in 2018 and 2022 highlighted the significant role social media platforms, particularly YouTube and TikTok, played in contributing to political radicalization. In 2018, far-right candidate Jair Bolsonaro strategically utilized YouTube influencers to spread anti-establishment narratives, effectively undermining the credibility of traditional media outlets and shaping public discourse. By 2022, TikTok's algorithm was found to promote conspiracy theories surrounding election fraud, further intensifying political tensions between Bolsonaro and his left-wing opponent, Lula da Silva.[29,30]

As seen in the U.S. and India, misinformation campaigns in Brazil were often emotionally charged and highly engaging, with content designed to stir fear, anger, and distrust. This global phenomenon underscores how social media platforms have become powerful tools for driving polarization, influencing not only domestic politics but also the broader landscape of democratic discourse worldwide.

Key Takeaways from the Case Studies

Across the U.S., UK, India, and Brazil, social media has played a consistent role in fueling political polarization through several key mechanisms. Echo chambers are reinforced by algorithms that selectively expose users to content that aligns with their existing biases, creating communities where political moderation is discouraged.[31] At the same time, misinformation and deepfakes have made it increasingly difficult to distinguish fact from fiction, with AI-driven content exacerbating the spread of viral misinformation that erodes trust in democratic institutions. Both foreign and domestic actors have exploited social media to manipulate public opinion, using platforms to shape narratives, suppress

[28] Bhoi, Sameera, Vinayak Kumar Jha, and Rajesh Kumar. *"Information Disorder in Democracy: A Thematic Analysis of Mis/Disinformation in the 2024 Indian General Election."* International Information & Library Review (2026): 1-17, https://doi.org/10.1080/10572317.2026.2620350.

[29] Lima, Juliana, Maria Santana, Andreiwid Sh. Corrêa, and Kellyton dos Santos Brito. *"The Use and Impact of TikTok in the 2022 Brazilian Presidential Election."* In Proceedings of the 15th ACM Web Science Conference 2023, 330–334. New York: Association for Computing Machinery, 2023, https://doi.org/10.1145/3598469.3598485.

[30] Dourado, Tatiana, and Susana Salgado. 2021. *"Disinformation in the Brazilian Pre-Election Context: Probing the Content, Spread and Implications of Fake News about Lula Da Silva."* The Communication Review 24 (4): 297–319, doi:10.1080/10714421.2021.1981705.

[31] Gaur, Akriti. *"Covert Connection and the First Amendment The nexus between the state and tech platforms in an era of democratic backsliding."* (2026), http://dx.doi.org/10.2139/ssrn.6635718

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dissent, and deploy microtargeting techniques that prey on psychological vulnerabilities, further intensifying polarization.

Additionally, social media platforms incentivize extremism, as engagement-driven algorithms prioritize emotionally charged content, giving disproportionate visibility to sensationalist and extreme viewpoints, which further deepens ideological divides. This combination of factors highlights the profound influence social media has on political discourse globally, contributing to rising polarization and undermining democratic processes.

5. DISCUSSION AND IMPLICATION

The findings of this study reveal a complex relationship between social media and political polarization, demonstrating that digital platforms do not merely reflect existing societal divisions but actively reshape and intensify them. Three key insights emerge from our analysis of the 2025 U.S. election and comparative case studies:

First, social media algorithms are not neutral actors in political discourse. Their design prioritizes engagement over truth, creating an environment where emotionally charged content, particularly anger, fear, and outrage, naturally rises to prominence. This algorithmic bias systematically disadvantages moderate voices while amplifying extremes, effectively redesigning the architecture of public debate.

Second, the 2025 election confirmed that polarization has entered a new technological phase. Where previous elections saw human-created misinformation, AI-generated content now allows for unprecedented scale and personalization of disinformation. Deepfakes and synthetic media have eroded the shared reality necessary for democratic functioning, creating a crisis of epistemic instability where voters cannot agree on basic facts.

Third, our comparative analysis reveals these dynamics are not uniquely American. From Brazil's WhatsApp misinformation campaigns to India's weaponized deepfakes, the same patterns emerge across democracies. This suggests polarization is less about any specific country's politics and more about how social media's business models interact with human psychology globally.

These findings carry significant implications for how we understand democracy in the digital age. The traditional view of elections as contests between competing policy visions is increasingly obsolete. Instead, we now see battles between competing information ecosystems, where the ability to dominate digital narratives often outweighs substantive debate. This shift raises fundamental questions about voter autonomy, as microtargeting techniques become sophisticated enough to predict and manipulate individual choices with frightening accuracy.

On top of that, the globalization of information warfare means domestic political stability is now vulnerable to foreign interference at unprecedented scales. The 2025 U.S. election demonstrated how easily international actors could exploit platform vulnerabilities, with AI-generated content making attribution nearly impossible. This creates a new frontier for national security that existing institutions are ill-equipped to handle.

Perhaps most critically, our research suggests polarization is not an inevitable byproduct of technology but a direct result of specific platform design choices. The consistent patterns across countries indicate that when social media prioritizes infinite scroll, viral outrage, and algorithmic radicalization, similar political consequences follow regardless of cultural context.

5.1. Addressıng the Challenges of Socıal Medıa Polarızatıon

While the role of social media in amplifying political polarization is undeniable, there are several solutions and strategies that can be employed to mitigate its effects. These solutions range from technological reforms to regulatory changes and public education campaigns aimed at improving media literacy. In this section, we will discuss algorithmic transparency, fact-checking initiatives, media literacy programs, regulations and policy measures, and the role of social media platforms in fostering more balanced political discourse.

5.2. Algorithmic Transparency and Reform

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A primary factor contributing to political polarization is the algorithmic amplification of partisan content. Social media platforms use algorithms to personalize content for users, showing them what they are most likely to engage with. This often leads to filter bubbles and echo chambers, where users are predominantly exposed to information that reinforces their existing beliefs.

For social media platforms to become more accountable, algorithmic transparency is essential. Platforms must disclose how their algorithms prioritize content and ensure users are exposed to a wider range of viewpoints, rather than being trapped in echo chambers. Additionally, users should be given more control over their newsfeeds, with the ability to adjust or mute recommendations that promote partisan content. To further ensure fairness and prevent manipulation, there should be increased oversight from independent researchers and regulators who can assess whether algorithms are disproportionately amplifying extreme viewpoints. By implementing these measures, social media platforms can play a more responsible role in fostering balanced and informed public discourse.

Introducing transparency on social media platforms can help users break free from ideological echo chambers, ultimately leading to a more balanced and diversified flow of political information. To achieve this, algorithmic reform initiatives should focus on several key areas. First, neutral content curation is essential, where algorithms are adjusted to avoid amplifying sensationalism, misinformation, and extreme content, thereby encouraging more balanced political discourse. Second, the de-prioritization of emotionally charged content, particularly content that stirs fear or anger, could help reduce the polarization driven by such content, as research shows that it tends to generate more engagement. Lastly, platforms can promote civil discourse by designing algorithms that prioritize respectful and constructive conversations while reducing exposure to divisive and inflammatory posts. These reforms would create a healthier digital environment that fosters thoughtful discussions and helps mitigate the growing political divide.

5.3. Media Literacy and Fact-Checking Initiatives

The rapid spread of misinformation and disinformation on social media platforms can be curbed through media literacy programs and fact-checking initiatives. Users often struggle to differentiate between reliable and unreliable sources of information, and misinformation often spreads faster than factual news.

Promoting media literacy is crucial to reducing political polarization, especially among young voters, by educating the public on how to critically evaluate online content. Media literacy initiatives should focus on teaching users to recognize the signs of misinformation, such as identifying unreliable sources, clickbait, and misleading headlines. It's also important to encourage critical thinking, helping individuals question the sources of political information and explore multiple viewpoints before forming conclusions. Additionally, raising awareness about algorithmic manipulation can help users understand how social media algorithms influence the content they see, contributing to biased or one-sided information. Several programs, such as the Digital Literacy Program in the U.S. and similar campaigns across Europe, are already teaching media literacy in schools, but expanding these initiatives to reach a broader population, including adults, is necessary.[32]

Alongside media literacy, fact-checking collaborations are essential in reducing misinformation spread on social media platforms. Partnerships between platforms and independent fact-checking organizations can help by flagging false content with visible fact-checking labels, providing alternative viewpoints instead of merely removing misleading posts, and coordinating with international networks like the International Fact-Checking Network (IFCN) to maintain global standards for truth and accuracy. These fact-checking efforts should also extend to other polarizing content, such as conspiracy

[32] Zou, Zongfeng, Min Zhang, and Ronghua Jin. *"Exploration and Implementation of Citizen Digital Literacy Framework: International Experience and Implications."* Sustainability 18, no. 7 (2026): 3502, https://doi.org/10.3390/su18073502.

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theories and fake health news, which can further exacerbate societal divisions, ensuring that social media serves as a platform for more accurate and diverse information.[33]

5.4. Regulation and Policy Measures

Governments and regulatory bodies can play an essential role in addressing the harmful effects of social media-induced political polarization. Effective regulation can ensure that social media platforms act responsibly and that their role in public discourse is balanced.

Regulating political advertising is crucial to mitigating the role social media plays in fueling polarization, particularly through targeted ads that exploit users' data for divisive purposes. Governments should enforce transparency in political ads, requiring platforms to disclose the origin and financing of ads, along with the demographic targeting strategies used. Limiting microtargeting can reduce the manipulation of voters based on personal data, while prohibiting dark ads, which are not visible to the wider public, ensures that all political advertisements are subject to public scrutiny. Strengthening content moderation policies is equally important in combating harmful political content. Platforms should ban hate speech and incitement to violence, preventing the spread of content that encourages discrimination or violence against political groups or minorities. They should also take steps to detect and block foreign interference campaigns, as seen during the 2016 U.S. election, and enforce consistent community guidelines to prevent the proliferation of harmful content across partisan divides.

In addition, regulatory bodies can impose penalties on platforms that fail to curb misinformation, such as fines for non-compliance with content moderation standards and public reporting requirements to demonstrate the effectiveness of their efforts in addressing misinformation and polarization. The European Union's Digital Services Act (DSA), which came into effect in 2022, serves as a model for regulating online platforms, mandating transparency in content moderation, accountability, and stronger safeguards against harmful content, setting an example for future regulation of social media.[34]

5.5. The Role of Social Media Platforms in Promoting Balanced Discourse

Social media companies are central to the solution of political polarization. They are not just passive platforms but active participants in shaping public discourse. Therefore, they must take responsibility for their role in promoting political stability.

Social media platforms have the potential to encourage positive political engagement by fostering an environment conducive to civil discourse. This can be achieved by promoting civil debates, creating spaces where users can engage in reasoned discussions without resorting to insults, aggression, or trolling. Platforms should also prioritize fact-based political content by featuring material from fact-checked sources and encouraging balanced discussions, helping to combat misinformation. Additionally, empowering users to report harmful content allows them to flag misinformation or content that incites violence, providing a way for the community to actively contribute to a healthier digital environment. Since polarization is a global issue, collaboration between social media platforms is essential to creating a unified solution. Major platforms must share best practices by regularly meeting to exchange strategies for combating misinformation and polarization, and they should join international coalitions to promote responsible digital discourse worldwide. This global cooperation will be key in addressing the challenges posed by social media-driven polarization and ensuring a more informed, respectful public sphere.

6. CONCLUSION

Social media has undeniably transformed political discourse, making it more accessible and engaging for users worldwide. However, the very features that have made social media so powerful, such as

[33] Alam, Ahmed Shatil. *"What is Fact-Checking Ethics? Examining Fact-Checkers' Ethical Practices and Factors of Influence in Seven Countries in the Global North and South."* PhD diss., University of Oklahoma–Graduate College, 2026.

[34] Fabbri, Matteo. *"User Empowerment in the Digital Services Act: Redirecting Platforms' Influence through Transparency and Controllability of Recommender System."* (2026), https://hdl.handle.net/20.500.11771/41840.

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personalization, algorithm-driven content curation, and widespread interactivity, have also contributed to the deepening of political polarization. The 2025 U.S. Presidential Election and case studies from around the world demonstrate the profound impact social media has had on political attitudes and behaviors.

Addressing the challenges of polarization requires a multi-faceted approach. Algorithmic transparency, fact-checking initiatives, media literacy programs, and regulatory reforms are all essential to creating a more balanced and informed political environment. Social media companies, governments, and civil society must work together to find solutions that reduce polarization while preserving the democratic benefits of digital engagement. The future of democracy in the digital age depends on our ability to mitigate the harmful effects of social media on political discourse and foster a healthier, more inclusive public sphere.

The empirical evidence from the 2025 U.S. election and comparative international cases presents a clear pattern: social media platforms have systematically reshaped political discourse in ways that amplify polarization. Three fundamental insights emerge from this investigation:

The research reveals that modern polarization operates through competing information ecosystems rather than mere policy disagreements. Where citizens once debated interpretations of shared facts, platform architectures now enable entire alternate realities to flourish. This epistemic fragmentation poses existential challenges to democratic deliberation.

Likewise, the study documents how digital campaigning has evolved into a form of information warfare. The 2025 election demonstrated unprecedented sophistication in manipulation techniques, from AI-generated personas to algorithmically optimized deepfakes. These tools have blurred traditional boundaries between authentic political speech and manufactured propaganda. Perhaps most significantly, the cross-national analysis establishes that these dynamics transcend specific political cultures. Whether examining the U.S., Brazil, India or the UK, the same platform features produce similar polarizing effects, suggesting the problem stems from underlying technological architectures rather than local political contexts.

Actionable Recommendations for Stakeholders are as follows.

For Policymakers:

1. Develop algorithmic transparency requirements that mandate explainability in content recommendation systems
2. Establish independent oversight bodies with audit authority over platform operations
3. Create protected spaces for non-algorithmic political discourse through public digital infrastructure

For Educators:

1. Implement mandatory digital literacy curricula focusing on source evaluation and emotional manipulation awareness
2. Develop community workshops to rebuild shared information evaluation skills across generations
3. Partner with journalists to create immersive misinformation simulation exercises
4. For Platform Companies:
5. Redesign engagement metrics to reward accuracy and nuance rather than mere visibility
6. Invest in "bridging recommendation" systems that strategically expose users to challenging but constructive viewpoints
7. Develop clear ethical frameworks for political ad targeting with independent review processes

For Civil Society:

1. Build cross-partisan coalitions to establish norms for healthy online political engagement
2. Support independent fact-checking networks with multi-lingual capabilities
3. Develop citizen-led monitoring systems for early detection of coordinated manipulation campaigns

This multifaceted approach recognizes that no single intervention can address digital polarization. The solutions must be as complex and interconnected as the problem itself - combining

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technical, educational, regulatory and cultural strategies. The urgency of this effort cannot be overstated. As the 2025 case study demonstrates, each election cycle brings more sophisticated manipulation tools while eroding democratic resilience. However, the research also offers hope: when platforms have voluntarily implemented even partial reforms (as seen in some European trials), measurable reductions in polarization metrics have followed.[35]

Finally, this study argues that the quality of our digital public sphere is not predetermined by technology but shaped by human choices - about platform design, about regulation, about how we educate future citizens. The path forward requires recognizing that democratic discourse is not just another market to optimize, but the foundational infrastructure of self-governance that demands careful stewardship.

[35] Osipov, Artur. *"RECOMMENDER SYSTEMS AND DEMOCRACY: LINGUISTIC DIVERSITY, EPISTEMIC AGENCY, AND CIVIC PARTICIPATION."* PhD diss., University of Dublin, 2026.