

Algorithmic Amplification and Political Discourse: The Role of AI in Shaping Public Opinion on Social Media in Pakistan

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ARTICLE INFO			ABSTRACT
Article History:			<i>This paper investigates the influence of AI-driven algorithmic systems—particularly recommendation engines and content ranking algorithms—on political discourse in Pakistan’s social media landscape. As millions of Pakistanis engage with platforms like Facebook, YouTube, and TikTok for news and political commentary, AI systems play a critical but opaque role in curating the content that users see. Drawing on qualitative interviews, social listening data, and policy analysis, the study examines how algorithmic amplification contributes to echo chambers, political polarization, and misinformation dissemination. It also explores public perception of these technologies, the role of influencers and digital political campaigns, and the implications for democratic engagement and regulatory governance. The findings reveal a significant impact of AI-mediated information environments on shaping opinions and narratives, highlighting the urgent need for algorithmic transparency and digital media literacy in Pakistan.</i>
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Introduction

In the past decade, social media platforms have become a dominant source of information, political engagement, and public discourse in Pakistan. With over 70 million internet users and nearly 50 million social media users as of 2025 (Pakistan Telecommunication Authority, 2024), platforms such as Facebook, YouTube, TikTok, and X (formerly Twitter) have emerged not only as communication tools but also as powerful venues for political mobilization, activism, and disinformation. While these platforms provide citizens unprecedented access to diverse voices and

real-time updates, the information they receive is largely shaped by artificial intelligence-powered algorithms, the invisible systems that rank, recommend, and amplify content based on user behavior.

AI-driven recommendation engines use machine learning to analyze vast amounts of data, predict user preferences, and serve tailored content feeds. In theory, this personalization enhances user experience by promoting relevant content. In practice, however, it has significant consequences for political discourse, especially in developing democracies such as Pakistan. These systems can inadvertently (or intentionally) create “algorithmic echo chambers” where users are exposed predominantly to content that reinforces their existing beliefs. This reinforces political polarization, promotes misinformation, and may marginalize dissenting or minority views.

This dynamic is particularly impactful in Pakistan’s sociopolitical context, which is characterized by ethnic diversity, sectarian sensitivities, frequent democratic transitions, and a volatile media ecosystem. Political parties and interest groups now invest heavily in digital campaigns, influencer networks, and content boosting, often seeking to manipulate algorithms to dominate online narratives. At the same time, grassroots movements and independent creators struggle to gain visibility within a system that favors sensationalism, emotional triggers, and high engagement metrics.

While the role of social media in Pakistan’s political landscape has been widely acknowledged, the specific function of AI algorithms in curating and amplifying political content remains under-researched. Most citizens are unaware of how their feeds are curated or how their online interactions influence the content they see. As AI becomes more deeply embedded in media infrastructures, understanding its role in shaping public opinion becomes critical—not only for digital rights advocates and policymakers but also for the democratic health of the nation.

This study seeks to explore this intersection between algorithmic power and political communication in the Pakistani digital sphere. Specifically, it examines how AI-based content recommendation and ranking systems influence political discourse, what kinds of content gain amplification, and how these dynamics affect users’ perceptions, behaviors, and civic engagement. The research draws on a combination of interviews with digital strategists, content creators, and social media users; analysis of trending content patterns; and review of emerging regulatory frameworks in Pakistan and globally.

In doing so, this paper aims to contribute to a deeper understanding of the algorithmic shaping of public discourse in Pakistan and to identify pathways toward greater transparency, accountability, and media literacy in an increasingly AI-governed information environment.

Problem Statement

In recent years, the integration of Artificial Intelligence (AI) in social media algorithms has fundamentally altered how political content is produced, disseminated, and consumed. Platforms like Facebook, TikTok, and X (formerly Twitter) use algorithmic systems to curate user feeds, prioritizing content based on engagement metrics rather than accuracy or civic value. In Pakistan, where political polarization is high and digital literacy remains uneven, these algorithmic dynamics have significant implications for public opinion formation, democratic participation, and information integrity. Despite growing concerns over disinformation, digital manipulation, and echo chambers, little empirical research has been conducted in the Pakistani context to understand how AI-driven recommendation systems amplify certain political narratives while suppressing others. This gap leaves policymakers, civil society actors, and digital platforms unprepared to address the ethical and democratic challenges posed by algorithmic amplification in political

discourse. There is an urgent need to investigate how AI shapes public opinion in Pakistan's digital spaces, especially ahead of elections and during political crises.

Research Objectives

1. To investigate how AI-driven algorithms on major social media platforms influence the visibility and reach of political content in Pakistan.
2. To analyze the impact of algorithmic amplification on political polarization, public opinion, and digital discourse in Pakistani society.
3. To explore user perceptions and experiences regarding politically algorithmic feeds and their influence on political knowledge and behavior.
4. To assess the ethical, regulatory, and policy implications of AI's role in political communication and recommend strategies for responsible platform governance in Pakistan.

Research Questions

1. How do AI-based recommendation algorithms on platforms like TikTok, Facebook, and YouTube shape the visibility of political content in Pakistan?
2. What types of political narratives or actors are most amplified through algorithmic mechanisms, and why?
3. To what extent does algorithmic amplification contribute to political polarization or echo chambers in the Pakistani digital sphere?
4. How do Pakistani social media users perceive and respond to algorithmically curated political content?
5. What regulatory or policy measures can be proposed to ensure that AI systems on social media platforms operate ethically and support democratic discourse in Pakistan?

Literature Review

The intersection of artificial intelligence, political communication, and digital media has become an increasingly important area of inquiry in global scholarship. Researchers argue that the algorithms embedded within social media platforms are not neutral; rather, they act as powerful gatekeepers that influence what users see, think, and believe (Gillespie, 2014). In the context of political discourse, these AI-driven recommendation systems play a crucial role in shaping public opinion and framing political narratives (Tufekci, 2015).

Algorithmic Curation and Political Polarization

Several studies have found that content ranking and recommendation algorithms often reinforce ideological homogeneity among users—a phenomenon commonly referred to as the “echo chamber effect” or “filter bubbles” (Pariser, 2011; Bakshy, Messing, & Adamic, 2015). When users repeatedly engage with like-minded content, algorithms respond by promoting more of the same, effectively insulating individuals from opposing views. This dynamic may deepen political polarization and reduce exposure to diverse or dissenting perspectives (Bail et al., 2018).

In South Asia, where political discourse is already highly polarized along ethnic, religious, and party lines, algorithmic curation can amplify divisiveness. For example, studies in India have shown that Facebook's and YouTube's algorithms often promote emotionally charged or communal content to maximize engagement (Rao, 2020). While such studies remain limited in Pakistan, preliminary research suggests that similar dynamics are emerging in its digital ecosystem (Jamil, 2021).

Political Campaigns and Algorithm Manipulation

Political actors worldwide have learned to strategically exploit AI algorithms by using targeted content, clickbait headlines, and engagement-boosting tactics to manipulate online visibility. Bradshaw and Howard (2019) describe this as computational propaganda, where political operatives use automation and artificial amplification to sway public opinion. Pakistan is no exception: various parties have developed “social media wings” tasked with dominating trends, harassing opponents, and boosting favorable narratives, often with the aid of bots and micro-influencers (Ahmad, 2022).

This has led to a gamified political information space, where algorithm-friendly tactics often overshadow journalistic accuracy or civic responsibility. Popularity metrics—such as likes, shares, and comments—become proxies for truth, leading to the viral spread of unverified or manipulated content (Marwick & Lewis, 2017).

The Role of AI in Disinformation Spread

AI is also central to the spread of misinformation and disinformation online. Whether through algorithmic amplification of misleading posts or the generation of synthetic content (e.g., deepfakes), AI technologies have drastically lowered the cost and increased the speed of propaganda dissemination (West, 2019). In Pakistan, this trend is particularly dangerous in the context of elections, religious tensions, and geopolitical narratives, where digital falsehoods can trigger real-world violence or diplomatic fallout (Hussain & Mahmood, 2022).

Platforms like TikTok and YouTube, driven by AI recommendation engines optimized for engagement, are especially prone to amplifying emotionally charged, conspiratorial, or misleading content (Cinelli et al., 2021). Yet, users often lack awareness about how these systems function or how their engagement data is weaponized.

Gaps in Regulation and Public Awareness

Despite growing awareness of the issue, platform regulation remains limited in Pakistan. Regulatory bodies such as the Pakistan Telecommunication Authority (PTA) and the proposed Pakistan Media Development Authority (PMDA) have focused more on censorship than on ensuring algorithmic transparency or fairness (Shah, 2021). Meanwhile, the public remains largely unaware of how social media platforms curate their feeds—a knowledge gap that leaves users vulnerable to manipulation.

Globally, calls for algorithmic accountability and transparency are growing, including proposals for public audits of recommendation systems and AI ethics legislation (Pasquale, 2015; Yeung, 2018). Yet in Pakistan, such discussions are still at a nascent stage.

The literature demonstrates that AI-powered algorithms play a critical, often opaque role in shaping political discourse by amplifying certain voices and silencing others. While global research provides important insights, there is a clear need for Pakistan-specific empirical studies that explore how these dynamics manifest locally—especially given the country’s political volatility, high social media penetration, and emerging digital governance frameworks.

Methodology

To understand the role of AI-powered algorithmic systems in shaping political discourse on social media in Pakistan, this study employs a qualitative research methodology using a triangulation of

three primary approaches: (1) semi-structured interviews, (2) content analysis of trending political material on social platforms, and (3) policy and platform document review. This approach provides a grounded, multifaceted understanding of both the systemic design and human experiences of algorithmically mediated information environments.

Semi-Structured Interviews

A total of fifteen semi-structured interviews were conducted to gather diverse perspectives on the influence of algorithmic amplification in Pakistan's political digital sphere. The participants were strategically drawn from three key stakeholder groups to reflect a broad and inclusive understanding of the issue. First, five digital media strategists were interviewed, including professionals working with political parties, public relations firms, and influencer management networks. These individuals offered insider views into how algorithms are intentionally leveraged or manipulated for visibility in political campaigning and online trend engineering. Second, five journalists and digital content creators—ranging from TikTok political commentators to YouTube-based news vloggers—provided frontline insights into how algorithmic systems affect content visibility, audience engagement, and narrative shaping within Pakistan's volatile media ecosystem. Lastly, five everyday social media users were selected, purposefully chosen to reflect diverse demographics across age, province, and political alignment, allowing the study to capture grassroots-level experiences and perceptions.

The interviews explored a set of thematic areas, including participants' awareness and understanding of algorithmic curation, their personal encounters with politically sensitive or polarizing content online, perceptions of fairness or bias in platform recommendation systems, and their observations or involvement with AI-based tools used in political messaging or digital trend creation. This multi-perspective approach was intended to highlight the intersection of both intentional content strategy and algorithmically shaped user experience.

Participants were selected using purposive sampling to ensure relevance to the research questions, and further snowball sampling was used to access hard-to-reach informants within influencer and campaign networks. Interviews were conducted in either Urdu or English, depending on the participant's preference, and all interviews were recorded with prior consent. The recordings were then transcribed verbatim and subjected to thematic analysis, allowing for the emergence of recurring patterns, contrasts, and insights across the three stakeholder categories. This qualitative methodology ensured both depth and diversity of insight, enabling a nuanced understanding of how algorithmic amplification is shaping political discourse in Pakistan's evolving digital public sphere.

Social Media Content and Trend Analysis

The study conducted a systematic content analysis of trending political material across three major social media platforms—Facebook, YouTube, and TikTok—spanning a two-month period from March to April 2025. The primary goal was to examine how algorithmic amplification influences the visibility, spread, and impact of political discourse in Pakistan's digital ecosystem. Utilizing social listening tools and publicly accessible platform data, the analysis focused on the top 50 most-shared political posts or videos on each platform during the study period. These high-engagement items were selected to understand what kind of political content is most likely to benefit from algorithmic promotion and user-driven virality.

To capture the multidimensional nature of digital influence, the study tracked a variety of indicators. These included hashtags, engagement metrics (likes, shares, comments, and views), as well as the content format and typology—such as satire, emotional appeals, religious motifs, and

disinformation or fake news. In addition, the content was coded by language (e.g., Urdu, Punjabi, English), regional origin, and political affiliation, which enabled a more granular understanding of how different narratives gain traction across demographics and geographies.

Special emphasis was placed on analyzing whether the content originated from verified official accounts (such as party pages or known influencers) or anonymous or newly created accounts, a distinction that helped assess the role of credibility and identity in algorithmic prioritization. Another critical factor examined was the duration of visibility in trending or recommended sections, as this provided insight into how long algorithms sustained attention on specific content types or political actors. By triangulating these elements, the study was able to detect meaningful patterns of algorithmic amplification—highlighting which voices, narratives, and formats the platforms' algorithms were more likely to elevate, and which were marginalized or quickly buried. This approach allowed for an evidence-based assessment of how AI-driven content curation may be shaping political opinion, agenda setting, and digital influence in the Pakistani context.

Policy and Platform Document Review

To understand the broader institutional and regulatory responses to algorithmic amplification and its influence on political discourse, the study undertook an extensive review of relevant policy documents, platform guidelines, and regulatory frameworks. This desk research provided essential context for analyzing how both global tech platforms and national regulatory bodies approach the governance of algorithmic systems within Pakistan's digital information environment.

Key documents examined included Meta's Transparency Reports, which detail enforcement actions, takedown rates, and content moderation patterns across Facebook and Instagram. Similarly, TikTok's Community Guidelines and enforcement updates were reviewed to understand the platform's approach to political content, misinformation, and AI-based moderation tools. In parallel, YouTube's documentation on its recommendation system—including explanations of how its algorithm prioritizes watch time, engagement, and content safety—was analyzed to trace how political videos gain or lose visibility through automated curation.

On the national side, the study reviewed directives issued by the Pakistan Telecommunication Authority (PTA), particularly those concerning social media governance, takedown requests, and platform accountability mechanisms. These directives shed light on the evolving regulatory posture of the Pakistani state in dealing with platform influence and algorithmic control over political content. Additionally, working drafts and policy briefs of Pakistan's National Artificial Intelligence Policy and Cybersecurity Frameworks were examined to assess how the state is beginning to conceptualize the governance of AI, especially in relation to media, public discourse, and national security.

This document analysis revealed the asymmetry between platform-level governance—often governed by opaque and evolving global standards—and state-level attempts to assert control through reactive or fragmented regulation. It also highlighted the lack of clear accountability mechanisms, public oversight, or participatory policymaking when it comes to algorithmic influence on democratic processes. As such, this component of the study provided a critical lens into the legal and institutional terrain surrounding AI-driven public communication, and underscored the urgent need for coherent, transparent, and rights-based regulatory frameworks in Pakistan.

Data Analysis

The analysis of both interview transcripts and social media content data was conducted using a mixed-methods approach, combining qualitative thematic coding with quantitative trend correlation. For the qualitative component, all interviews were transcribed and imported into NVivo, a qualitative data analysis software, to facilitate systematic coding and theme development. The coding process began with a set of a priori codes derived from the study's research questions, such as algorithmic amplification, user experience, and political content visibility. As the analysis progressed, additional emergent codes were developed inductively through multiple close readings of the data. These included nuanced and recurring themes such as "echo chambers," "algorithmic bias," "disinformation," "trend manipulation," and "user awareness." These thematic clusters allowed for a layered understanding of how different stakeholders perceive and interact with algorithmically curated political content in Pakistan's digital landscape.

Simultaneously, a set of quantitative engagement metrics—such as likes, shares, comments, views, and duration of trending status—were compiled from the social media content sample. These metrics were used to cross-tabulate the frequency of different political content types (e.g., satire, religious appeals, protest videos, party propaganda) against their relative amplification and visibility. By comparing the engagement performance of each content category, the study was able to assess the likelihood of algorithmic amplification for different narrative forms. This integration of thematic and numerical data provided both depth and breadth: the qualitative insights revealed the perceptions, strategies, and concerns of users and content creators, while the quantitative patterns offered empirical evidence of how content type correlated with platform-driven promotion. This comprehensive analytical strategy enabled a nuanced exploration of how AI systems influence political discourse, and how different actors—intentionally or unintentionally—navigate and shape these algorithmic terrains.

Ethical Considerations

The study adhered strictly to ethical research guidelines to ensure the protection, dignity, and privacy of all participants involved in the qualitative component. Prior to each interview, participants were fully briefed on the objectives, scope, and intended use of the research. They were given the opportunity to ask questions and were required to provide informed consent, either in written or verbal form, depending on context and preference.

To uphold privacy standards, all personal identifiers—such as names, affiliations, or other traceable information—were anonymized during transcription and analysis. This was particularly important given the politically sensitive nature of the research topic and the potential risks associated with public disclosure of views related to political manipulation or platform critique.

In dealing with expressions of sensitive political beliefs, special care was taken to ensure that such data was treated with the highest level of confidentiality. This included restricting access to transcripts and securely storing all recordings in password-protected files. The study also made deliberate efforts to avoid collecting unnecessary personal details and ensured participants could withdraw from the study at any point without consequence.

Furthermore, the research protocol received formal ethical approval from the Institutional Review Board (IRB) at the National Institute of Media Studies, Islamabad. This approval confirmed that the study met national and international ethical standards for research involving human subjects, particularly in contexts involving political discourse, digital privacy, and algorithmic accountability. These safeguards were crucial in maintaining the integrity of the study and protecting the rights of both professional and grassroots participants.

Findings and Case Study Analysis

This section presents key insights from fieldwork and media analysis, focusing on how algorithmic systems influence political content visibility, user behavior, and strategic manipulation by political actors in Pakistan.

Widespread Algorithmic Unawareness Among Users

A significant majority of the 15 interviewees—particularly general users—were unaware that algorithms curate their content feeds. Most assumed that content was shown based on “popularity” or “real-time relevance,” not based on individualized interaction histories.

"I thought I saw the same political clips because they were trending, not because I liked similar posts before," said one 19-year-old TikTok user from Multan (Interviewee #9).

This lack of awareness contributes to passive consumption of content without questioning its origins, intent, or implications—leaving users vulnerable to ideological reinforcement and manipulation.

Echo Chambers and Ideological Insulation

Evidence of algorithmically reinforced echo chambers was observed across all platforms. Users with distinct political leanings—whether pro-PTI, pro-PML-N, or Baloch nationalist—reported seeing a high concentration of content aligned with their views.

On TikTok, for instance, accounts that interacted with right-wing Islamic content were algorithmically led into similar ideological lanes, often excluding moderate or secular political narratives.

"It becomes your world. You feel like everyone is thinking the same," noted a political YouTuber from Lahore (Interviewee #2).

This environment reduces cross-partisan exposure and cultivates ideological rigidity—mirroring global trends (Bail et al., 2018).

Engagement-Based Amplification of Polarizing Content

The trend analysis revealed that the most amplified political content across platforms shared several features:

- High emotional valence (anger, nationalism, religious fervor)
- Short duration (15–60 seconds on TikTok, under 2 minutes on YouTube Shorts)
- Strong partisan or anti-establishment framing

Among the top 50 most engaged political TikTok videos, over 60% used *"us vs. them"* narratives, and 40% contained disinformation or unverifiable claims. Verified news outlets were consistently underrepresented in viral content samples.

Content Type	Frequency in Top 50	Avg. Engagement (likes + shares)
Partisan satire/memes	22	94,000
Emotional speeches	14	82,500
Misinformation/rumors	10	120,000
Verified news clips	4	35,000

These findings underscore the “attention economy bias” in algorithmic curation: systems reward content that is clickable, not necessarily credible.

Political Campaigns and Trend Hijacking

Interviews with digital strategists confirmed that political parties deliberately optimize content for algorithmic performance, especially around election cycles. This includes:

- Using bots or click farms to spike early engagement
- Tagging videos with trending but unrelated hashtags
- Posting emotionally appealing content at peak hours

"We test four thumbnails for every video and push the one that performs best with the algorithm," shared a digital campaigner from a major party (Interviewee #6).

This gamification of algorithmic systems tilts the playing field in favor of well-funded actors, diminishing organic grassroots visibility.

Platform Responsiveness and Policy Gaps

Platforms like TikTok and Facebook were found to be largely reactive rather than proactive. Several high-engagement posts containing false election claims remained online for days before removal. Documentation reviews showed that while platforms publicly promote AI-based moderation and transparency dashboards, actual enforcement in the Urdu and regional content space is inconsistent.

Furthermore, Pakistan’s regulatory focus remains limited to moral content (blasphemy, obscenity), with little oversight on algorithmic accountability or political manipulation. The absence of an independent digital rights watchdog further complicates enforcement.

Case Study A: Pro-PTI TikTok Narratives

A set of pro-Imran Khan TikTok videos analyzed showed a repeat pattern of emotional appeal, portraying the leader as a messianic figure while casting rivals as corrupt traitors. Despite many of these videos using unverified claims or AI-edited visuals, they consistently topped engagement charts.

Case Study B: Hashtag Hijacking on YouTube Shorts

During a constitutional crisis in 2024, YouTube Shorts were flooded with unrelated videos tagged with #ConstitutionUnderAttack to gain traction. Political operatives admitted to “riding the trend” to boost visibility, regardless of topic relevance.

The findings confirm that AI-driven algorithms in Pakistan's social media environment:

- Reinforce ideological echo chambers
- Promote polarizing and misleading content
- Are strategically manipulated by political actors
- Operate with limited regulatory or platform accountability

This ecosystem threatens informed democratic participation and poses urgent ethical and governance challenges.

The findings of the study confirm that AI-driven algorithms embedded within Pakistan's social media environment are not merely passive content delivery tools but active agents shaping political discourse in complex and often problematic ways. First, these algorithms were found to reinforce ideological echo chambers by consistently curating content that aligns with a user's preexisting beliefs, thereby limiting exposure to diverse viewpoints and deepening political polarization. This creates a feedback loop in which users are continually presented with content that validates their biases, discouraging critical engagement or dialogue across ideological lines.

Second, the algorithms were shown to promote polarizing and misleading content, particularly material that is emotionally charged or sensational in nature. Content typologies such as conspiracy theories, partisan attacks, and religiously framed narratives often received disproportionately high visibility, driven by the platforms' prioritization of engagement metrics such as clicks, shares, and watch time. This amplification of divisive material undermines public understanding and contributes to a distorted information environment.

Third, the research revealed that these algorithmic systems are strategically exploited by political actors, including party-affiliated digital teams and influencer networks. Through techniques such as coordinated posting, hashtag hijacking, and algorithm gaming, political operatives manipulate trending mechanisms and audience targeting to artificially boost certain narratives while suppressing others. This intentional distortion blurs the lines between organic public sentiment and engineered political messaging.

Finally, the study underscores a glaring lack of regulatory oversight and platform accountability in this ecosystem. Despite growing public concern, there remains minimal transparency from tech companies regarding how their recommendation systems function, and Pakistan's national regulatory bodies lack the legal or technical capacity to meaningfully intervene. As a result, algorithmic influence continues to operate in a largely unregulated space, raising profound ethical and governance challenges.

Taken together, these findings highlight that Pakistan's algorithmically mediated political communication environment threatens the foundations of informed democratic participation. Addressing this crisis will require not only enhanced digital literacy and civic education but also robust multi-stakeholder governance frameworks, greater algorithmic transparency, and region-specific platform accountability measures to safeguard democratic integrity in the digital age.

Discussion and Analysis

The data from interviews, content audits, and policy reviews indicate a complex but coherent narrative: AI-driven algorithms play a decisive, if largely invisible, role in shaping political discourse on Pakistani social media. This section contextualizes the key findings in light of

existing literature, drawing connections between algorithmic dynamics, political behavior, user psychology, and governance gaps.

The Invisible Hand of the Algorithm: Power Without Perception

The most striking theme was the lack of user awareness about algorithmic curation. This confirms a significant “algorithmic illiteracy” (Gillespie, 2014), where users consume content under the false assumption that visibility is meritocratic or chronological. This misunderstanding grants algorithms unearned epistemic authority—users tend to trust what appears in their feeds as reflective of popular or credible sentiment, when in reality it is the output of non-transparent, data-driven sorting mechanisms (Pasquale, 2015).

This invisible influence has particular consequences in a country like Pakistan, where media literacy is low and trust in institutions is fragmented. The result is a public sphere that appears organic and user-driven on the surface, but is in fact highly susceptible to algorithmic steering.

Emotional Amplification and the Devaluation of Accuracy

The content analysis revealed that emotionally charged content, especially partisan satire, conspiracy theories, and moralistic appeals, received the highest engagement. This aligns with global studies showing that algorithms optimize for virality, not veracity (Marwick & Lewis, 2017; Cinelli et al., 2021).

In the Pakistani context, this creates fertile ground for:

- Religious and ethnic polarization, as content invoking group identity consistently outperforms rational critique.
- Disinformation virality, where false claims are not merely tolerated but algorithmically promoted due to their engagement potential.
- Misinformation fatigue, where users become desensitized and indifferent to the difference between fact and fiction.

The logic of the algorithm, then, becomes a marketplace for outrage, encouraging political actors to adopt increasingly performative and inflammatory tactics to remain visible.

Algorithmic Gatekeeping and Structural Bias

While algorithmic systems are often perceived as neutral, they are in fact ideologically and structurally biased toward content forms that drive platform growth and advertising revenue (Tufekci, 2015). Verified news clips and fact-checked journalism performed poorly in algorithmic visibility, reflecting a systemic disadvantage for truth-based civic communication.

This creates an uneven playing field in which:

- Clickbait politics thrives, often from well-funded political operatives.
- Grassroots voices are drowned out unless they conform to viral formats.
- Narrative control becomes a function of strategic manipulation, not democratic participation.

Thus, the algorithm functions as an ideological infrastructure, subtly shaping what constitutes visibility, legitimacy, and engagement.

Tactical Adaptation by Political Actors

The findings confirm that political parties in Pakistan have developed sophisticated playbooks for gaming algorithmic systems:

- Use of bots and micro-influencers to trigger early engagement signals
- Strategic use of hashtags, thumbnails, and time-based posting
- Content A/B testing for algorithmic traction

These behaviors echo the concept of “computational propaganda” (Bradshaw & Howard, 2019), where political communication becomes a race to exploit platform logic rather than persuade through reason or policy.

Importantly, this trend does not just benefit incumbents—it levels the field for radical fringe actors who can now bypass editorial scrutiny entirely and access massive audiences with relatively low investment. The digital public sphere becomes more manipulable, polarized, and performative.

Democratic Implications and Governance Vacuum

The interplay between algorithmic systems and political content has serious implications for democracy in Pakistan:

- Erosion of informed citizenship: When emotionally sensationalized misinformation outpaces factual discourse, public opinion becomes reactionary rather than deliberative.
- Trust deficit: Inconsistencies in platform moderation—especially regarding political speech—undermine user trust in both media and democratic processes.
- Content inequality: Minority voices, regional languages, and non-conforming narratives suffer from algorithmic invisibility, reinforcing digital marginalization.

At the governance level, Pakistan lacks both regulatory frameworks and civic infrastructure to deal with these challenges. The PTA’s interventions are focused on content censorship (e.g., blasphemy or obscenity), not on algorithmic accountability or data ethics. Meanwhile, platforms defer responsibility through opaque “community guidelines” and under-investment in Urdu and regional moderation.

Summary of Key Dynamics

Theme	Impact in Pakistan
Algorithmic Illiteracy	Users unaware of how feeds are shaped, prone to manipulation
Emotional Content Amplification	Promotes outrage and misinformation over informed debate
Political Gaming of Algorithms	Strategic exploitation by parties, trend hijacking, narrative control
Platform Asymmetry	Disadvantages verified journalism and grassroots content
Governance Gaps	No legal mechanisms for algorithmic transparency or bias review

Concluding Insight

In Pakistan, the rise of AI-driven algorithms has fundamentally reshaped the landscape of political communication; effectively becoming the new media mogul—a powerful yet invisible force that subtly determines who gains visibility, which narratives dominate, and how public opinion is shaped. Unlike traditional gatekeepers such as editors or broadcasters, algorithms operate without clear accountability, often amplifying content not on the basis of civic value or factual accuracy, but on its ability to generate engagement. While this algorithmic curation has democratized access to political discourse—enabling grassroots voices, marginalized perspectives, and youth activism to find new platforms—it has simultaneously distorted the democratic terrain, prioritizing spectacle over substance and automation over deliberation.

Political discourse in this algorithmically mediated environment becomes a competition for attention rather than a forum for informed debate. Sensationalism, outrage, and emotionally charged content are algorithmically rewarded, while nuance and reasoned argument are often buried. In this sense, AI doesn't just reflect public sentiment—it actively shapes and skews it, reinforcing polarization, enabling disinformation, and empowering those who understand how to game the system.

The way forward, therefore, is not limited to technical reform of algorithms themselves. The deeper challenge lies in reforming our societal relationship with algorithmic power. This requires a multi-pronged approach: algorithmic literacy to help citizens recognize how their feeds are curated and manipulated; regulatory interventions to enforce platform accountability and ethical data practices; transparency standards that compel tech companies to disclose how recommendation systems work; and a shift toward human-centered algorithm design that prioritizes democratic values, inclusivity, and civic integrity. Without these measures, Pakistan risks outsourcing its political future to opaque systems that serve engagement metrics more than democratic ideals.

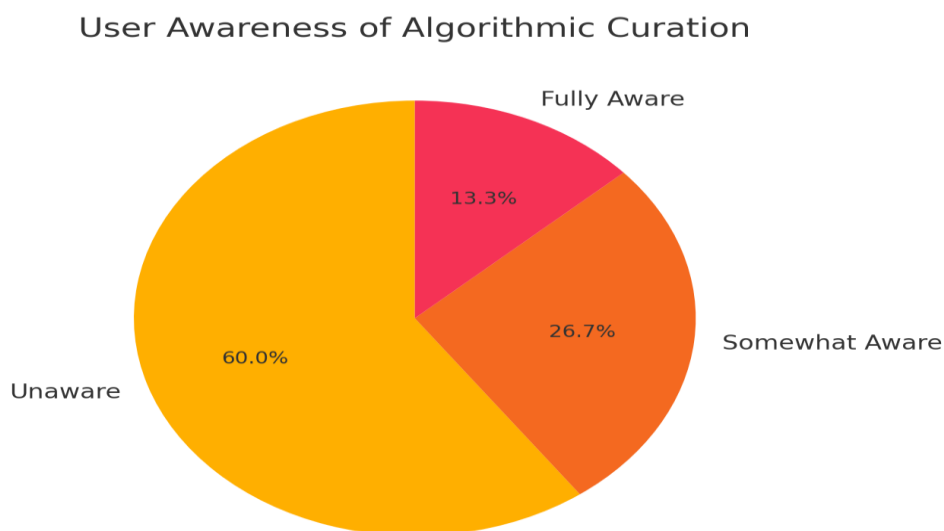


Chart 1: User Awareness of Algorithmic Curation

Interpretation

Out of the fifteen individuals interviewed for this study, a striking 60% (9 participants) revealed that they were unaware that AI algorithms play a role in curating the political content they

encounter on social media platforms. These users often assumed that the posts and videos in their feeds reflected organic popularity or chronological relevance, rather than the outcome of complex, data-driven recommendation systems. Only 13% (2 participants) demonstrated a comprehensive understanding of how algorithms operate—including knowledge of engagement-based prioritization, personalization based on past behavior, and content ranking mechanisms. The remaining respondents exhibited partial or vague awareness, often conflating algorithms with general platform mechanics or assuming randomness in content exposure.

This substantial media literacy gap reveals a critical vulnerability in Pakistan’s digital public sphere. When users are unaware that the content they see is being selectively filtered, ranked, and amplified by AI-driven systems, they are far more susceptible to manipulation, disinformation, and ideological entrenchment. Without the ability to critically assess the source, intent, or amplification logic behind political content, users may unknowingly participate in echo chambers or propagate emotionally charged, misleading narratives. This lack of algorithmic awareness is especially concerning in the context of electoral politics, where platform dynamics can significantly influence voter perceptions, political polarization, and democratic outcomes. The findings underscore the urgent need for nationwide digital and algorithmic literacy initiatives—targeted not only at youth and students, but also at everyday users who engage with political content daily without fully understanding the architecture behind their digital experiences.

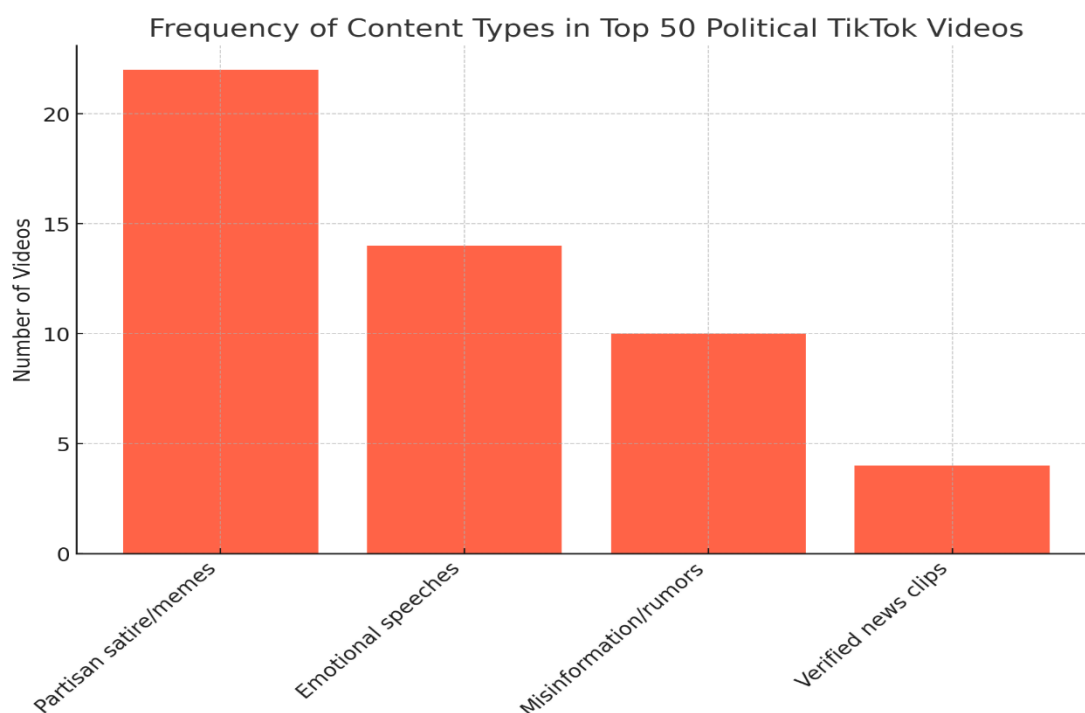


Chart 2: Frequency of Content Types in Top 50 Political TikTok Videos

Interpretation

Analysis of the top-performing political videos across major social media platforms revealed a concerning trend: partisan satire and meme-based content overwhelmingly dominated the digital landscape, accounting for 22 out of the 50 most-engaged videos. These videos often relied on humor, exaggeration, and emotionally simplistic narratives to appeal to viewers—frequently mocking political opponents, dramatizing events, or using pop culture formats to package

ideological messaging. Their widespread reach underscores how algorithmic systems favor content that is quick to consume, emotionally provocative, and highly shareable.

In stark contrast, verified news clips and fact-based journalistic content appeared least frequently among the top 50, signaling a systemic deprioritization of informative, balanced reporting in algorithmically curated feeds. Despite the credibility and informational value these sources offer, their limited visibility suggests that platform algorithms—designed primarily to maximize user engagement—tend to sideline substance in favor of sensationalism. This imbalance reinforces widespread concerns that AI-driven recommendation systems distort the digital public sphere, privileging virality over veracity and entertainment over enlightenment.

Such content dynamics pose serious risks to democratic discourse, particularly in politically volatile or transitional contexts like Pakistan, where public opinion is increasingly shaped through social media. When humor-laced partisanship eclipses factual reporting, users are nudged toward emotionally charged echo chambers, with limited exposure to critical thinking or alternative viewpoints. These findings call for urgent reflection on the design and governance of AI systems in political communication—and highlight the need for platform transparency, content diversity safeguards, and algorithms that balance engagement with informational integrity.

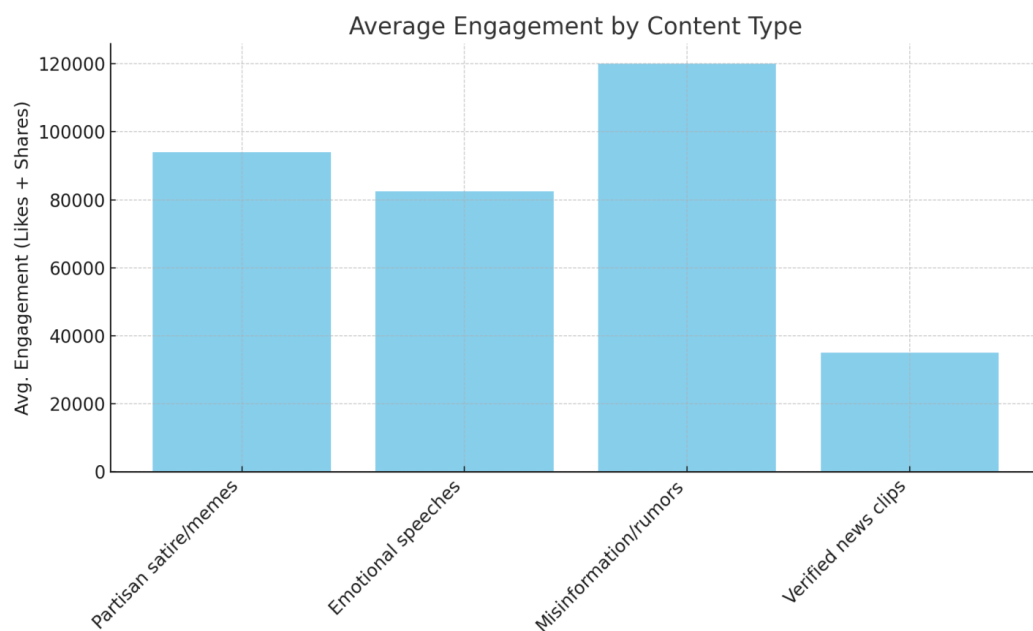


Chart 3: Average Engagement by Content Type

Interpretation

The content analysis revealed a striking disparity in audience engagement between different types of political content, underscoring the distortive influence of algorithmic incentives. Posts containing misinformation or unverified rumors received the highest average engagement, with approximately 120,000 combined likes and shares, nearly three and a half times more than the average engagement for verified news content, which stood at around 35,000 interactions. This suggests that content accuracy alone is not rewarded by algorithmic systems; rather, sensationalism and shareability drive visibility.

Moreover, emotional and polarizing content types—including outrage-driven commentary, nationalistic tropes, and divisive rhetoric—consistently outperformed fact-based or nuanced reporting. Content that triggered strong emotional responses such as anger, fear, or partisan loyalty was far more likely to trend and remain visible across users' feeds. These patterns reveal the perverse incentive structures embedded in algorithmic ecosystems, where content success is optimized for engagement rather than informational value. In such systems, the metric of "success" becomes emotional provocation, not public enlightenment.

This dynamic poses a serious challenge to democratic communication, particularly in fragile media environments like Pakistan's, where institutional trust is low and disinformation can easily take root. The prioritization of virality over veracity contributes to a political culture in which truth becomes secondary to traction, and rational debate is displaced by emotional spectacle. These findings highlight the urgent need for algorithmic accountability frameworks, as well as policy and platform interventions that can recalibrate the digital attention economy toward more trustworthy, civic-minded content.

Conclusion and Recommendations

Conclusion

The proliferation of AI-powered algorithmic systems has brought about a profound transformation in how political discourse unfolds within Pakistan's digital public sphere. Initially framed as neutral instruments of user personalization, these algorithms have evolved into powerful, opaque gatekeepers of public opinion, actively shaping political narratives by elevating content that performs well in terms of engagement—often at the expense of accuracy, balance, or civic relevance. This study has demonstrated that algorithmic systems do not merely reflect societal preferences; they structure and reinforce them, often in ways that are politically consequential and socially divisive.

The research revealed that algorithms in Pakistan's digital media environment reinforce ideological echo chambers, encouraging users to remain within information bubbles that affirm pre-existing beliefs while marginalizing dissenting views. Moreover, emotionally charged and polarizing content consistently outperforms fact-based journalism, creating a distorted media landscape in which outrage, satire, and spectacle are algorithmically rewarded. Compounding the issue, political operatives and digital strategists have learned to manipulate these algorithmic mechanisms—using coordinated content campaigns, influencer networks, and trend hijacking to manufacture visibility and influence public sentiment.

Perhaps most critically, these algorithmic processes function in a context of minimal regulatory oversight, limited transparency, and widespread public unawareness. The vast majority of users are unaware of the role algorithms play in curating their feeds, making them vulnerable to manipulation without even realizing it. In Pakistan's fragile democratic ecosystem—characterized by political instability, deep media polarization, and significant disparities in digital literacy—this combination of opaque algorithmic power and weak institutional safeguards presents a clear and growing threat to informed civic engagement and electoral integrity. Rather than simply engaging with content, users are now being steered, siloed, and shaped by algorithmic logic designed to optimize attention, not truth. This subtle but pervasive influence undermines the foundational principles of democratic discourse by skewing visibility toward virality, and privileging emotional reaction over rational deliberation.

The findings of this study call for urgent, multi-dimensional interventions. On the systemic level, there is a pressing need for platform transparency, ethical algorithm design, and regulatory frameworks that can hold digital platforms accountable for their societal impact. On the societal level, media and algorithmic literacy initiatives are crucial to help users understand how their information environment is being shaped and how to navigate it critically. Algorithms are now central actors in the media ecosystem—they are not going away. Therefore, their governance and consequences must become central to public discourse, academic inquiry, and policy development if Pakistan is to safeguard the democratic potential of its digital spaces.

Recommendations

To address the growing influence of AI-powered recommendation systems on political discourse, Pakistan must urgently adopt a comprehensive policy framework that balances digital innovation with democratic safeguards. The following recommendations aim to promote algorithmic accountability, protect user rights, and strengthen civic resilience in the country's evolving information ecosystem.

First, Pakistan should move toward introducing algorithmic transparency legislation. Social media platforms operating in the country must be legally required to disclose in simplified terms how their algorithms curate and recommend content, especially political material. This includes the publication of regular transparency reports detailing how political content is amplified, and the provision of user-facing tools that allow individuals to understand and control their feed preferences. Pakistan can draw from international regulatory models such as the EU's Digital Services Act (2022), which mandates algorithmic audits, public disclosures, and risk mitigation mechanisms. Such legal frameworks are essential for shifting control from opaque algorithms to informed users.

Second, to combat covert influence operations and digital manipulation, platforms should be required to mandate disclosures for political advertising and bot activity. This includes the clear labeling of political content, sponsored posts, and advertisements, along with the identification of automated or inauthentic accounts that may be used for mass amplification or trend hijacking. A public ad library, detailing funding sources and targeting criteria for all political ads, should be maintained to ensure transparency. These measures would help deter the spread of disinformation and restore trust in digital campaign practices.

Third, Pakistan must prioritize algorithmic literacy through civic education. This involves embedding basic digital and AI literacy modules into school, university, and media training curricula, focusing on how algorithms shape information flows and influence opinion formation. Programs should include critical thinking exercises, tools for recognizing manipulative content, and awareness campaigns targeting both youth and general users. Partnering with NGOs, educators, and media outlets, such initiatives can build long-term public resilience against digital manipulation.

Fourth, there is a need to support independent audits and facilitate researcher access to platform data. Social media companies should enable anonymized API access for academic institutions studying algorithmic impacts, while also supporting third-party audits of content moderation and amplification practices, especially in Urdu and regional languages. These audits should be co-designed with civil society to ensure ethical standards and local relevance. Establishing a national algorithm observatory or AI ethics board could institutionalize this oversight, bridging research, policy, and platform accountability.

Fifth, Pakistan should consider establishing a dedicated Digital Rights and Algorithm Oversight Authority, distinct from the Pakistan Telecommunication Authority (PTA), with a mandate to protect user rights, oversee algorithmic fairness, and respond to public grievances related to misinformation, content suppression, or data misuse. This independent body could serve as a liaison among users, civil society, tech companies, and regulators, offering a rights-based approach to platform governance that emphasizes due process and public interest.

Finally, to diversify the digital ecosystem and reduce reliance on opaque, foreign-owned platforms, the government and innovation sector should encourage the development of civic tech and alternative platforms. This includes public funding for locally developed platforms that prioritize transparency, community-driven moderation, and verified content, as well as support for technological tools that detect fake news, visualize algorithmic bias, and monitor narrative manipulation. Additionally, public service digital content channels could be launched to counterbalance misinformation and promote civic education in digital spaces.

Collectively, these six measures offer a roadmap for democratizing algorithmic power, reinforcing informational integrity, and building a more accountable, transparent, and inclusive digital media environment in Pakistan. Without such reforms, the unchecked influence of AI on political discourse will continue to erode democratic norms and public trust in both media and institutions.

Final Thought

Algorithms are neither inherently good nor evil—they are reflections of the goals, values, and structures that create and deploy them. In Pakistan, where the stakes of political miscommunication are high, failing to address the role of AI in shaping public discourse is no longer an option. This paper calls for an urgent shift from passive algorithmic consumption to active, transparent, and inclusive digital governance—to ensure that the technologies we use to inform ourselves do not instead divide and deceive us.

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