

Data Sharing Practices in Social Media Apps: Uncovering the Gap in Consent and Control

Harshal Panchal

1. Introduction

In the contemporary digital era, social media applications have become indispensable elements of our everyday lives, serving as platforms for communication, networking, and sharing personal experiences. The underlying foundation of these applications relies heavily on data sharing practices, where users willingly divulge copious amounts of personal information. Despite its pivotal role in enhancing user experiences, this widespread practice has been met with mounting concerns surrounding user privacy and data security. As a master's student in big data analytics, I am compelled to explore the intricacies of data sharing practices in social media apps, seeking to unravel the consent and control gap that exists within this domain.

A. Background and Significance of Data Sharing Practices in Social Media Apps

In the digital landscape, social media apps form the backbone of our interconnected society, facilitating the exchange of vast volumes of data that fuel their functionality. The significance of these data sharing practices is paramount, as they enable personalized experiences, targeted advertising, and the establishment of expansive user networks. However, as users entrust their personal information to these platforms, ethical and legal concerns arise, elevating the importance of safeguarding user privacy. In recent times, data breaches and privacy scandals have elevated public scrutiny, calling into question the practices employed by social media giants.

In light of these developments, my research embarks on a journey to delve into the background and significance of data sharing practices in social media apps. Acknowledging the pivotal role they play in shaping user experiences, my endeavor is to comprehend the nuances of these practices and their profound implications for user privacy and data protection.

B. Research Objective: Uncovering the Gap in Consent and Control Regarding Data Sharing

As an aspiring big data analytics professional, I have set forth the primary objective of this research: to illuminate the consent and control gap that permeates data sharing practices within social media apps. Despite the presence of privacy policies and terms of service agreements, users often find themselves grappling with an unsettling lack of comprehension and control over their shared data. This unsettling disparity between user expectations and the ground reality of data sharing practices constitutes a pressing concern that warrants thorough investigation.

Through this research, I seek to identify specific areas where consent and control mechanisms fall short, unravel the reasons behind these discrepancies, and ascertain their ramifications for user privacy. My aspiration is for this study to act as a catalyst for meaningful change, advocating for informed users and more transparent data sharing practices within social media applications.

C. Scope and Structure of the Literature Review

In keeping with the academic tone and rigour required of a master's student in big data analytics, this literature review embarks on a comprehensive exploration of data sharing practices in social media apps, with a sharp focus on consent and control. To facilitate a systematic analysis, this review draws upon a diverse range of peer-reviewed, scholarly journals encompassing the insights of esteemed experts and researchers in the field. By leveraging this wealth of relevant literature, I aim to construct a robust and informed examination of the identified gap.

2. Big ideas from scholar papers

Upon thorough analysis of the scholarly sources pertaining to data sharing practices in social media apps, a myriad of common ideas and themes emerge, painting a vivid picture of the consent and control gap within this realm.

A. Definition and Types of Data Shared in Social Media Apps:

One of the primary themes that scholars consistently emphasize revolves around the definition and categorization of data shared in social media apps. Within this context, the multifaceted nature of data takes center stage, encompassing personally identifiable information (PII), behavioral data, location data, and even user-generated content. This comprehensive understanding of various data types forms the bedrock of our comprehension, providing a nuanced glimpse into the scope and magnitude of information willingly shared on these platforms.

B. Common Practices and Mechanisms of Data Sharing:

Another prominent theme highlighted in the scholarly sources centers on the common practices and mechanisms employed by social media apps to facilitate data sharing. This encompasses a wide array of techniques, including data collection through cookies, tracking pixels, and API integrations with third-party applications. Scholars consistently point to the data-sharing relationships established with advertising partners and data brokers, which contribute to the creation of detailed user profiles, effectively enabling targeted marketing campaigns. Furthermore, the prevalence of social login features underscores the interconnectivity of data across digital ecosystems, underscoring the intricate and extensive nature of data sharing practices.

C. Key Stakeholders Involved in Data Sharing Processes:

A recurring thread in the literature revolves around the key stakeholders involved in data sharing processes. Notably, social media app developers and platform operators emerge as primary actors responsible for data collection, storage, and sharing. In addition, advertising partners and third-party developers are integral components of the data-sharing ecosystem, necessitating a collaborative effort to sustain targeted advertising models. Scholars also shed light on the pivotal role of regulatory bodies in

influencing data sharing practices, underscoring the imperative for industry-wide adherence to privacy regulations.

D. The Ethical and Legal Dimensions of Consent and Control in Data Sharing:

Ethical and legal considerations related to consent and control form a prominent theme throughout the literature. Scholars adamantly assert that informed consent stands as a cornerstone ethical principle, compelling social media apps to prioritize transparency and user empowerment in data sharing decisions. The significance of privacy laws and regulations, such as the General Data Protection Regulation (GDPR), remains consistently underscored in shaping data sharing practices. Moreover, the genuine concerns regarding potential privacy violations and data misuse serve as a solemn reminder of the gravity of addressing consent and control gaps in data sharing practices.

E. User Expectations and Preferences Regarding Data Sharing:

Another salient theme permeating the scholarly discourse revolves around user expectations and preferences concerning data sharing. Studies consistently illuminate that users expect a reasonable degree of autonomy and control over their personal data. However, the notion of the "privacy paradox" is a concept that arises frequently, wherein users express concerns about data privacy while paradoxically continuing to share copious amounts of personal information, motivated by the allure of convenience and access to platform features. This apparent incongruence underscores the dire need for comprehensive user education and transparent data sharing options to bridge the gap between user expectations and actual practices.

F. Implications of Insufficient Consent and Control for User Privacy:

Researchers dedicate considerable attention to expounding upon the implications of insufficient consent and control for user privacy. Inadequate control mechanisms open the door to unintended data exposures, breaches, and unauthorized access, presenting significant risks to user confidentiality. Scholars consistently underscore the potential consequences of data sharing practices, such as targeted advertising, behavioral profiling, and the perils of potential discrimination based on personal information. These discussions poignantly highlight the broader societal impact of inadequate consent and control mechanisms, transcending individual users and extending to a more profound societal context.

G. Analysis of Privacy Policies and Terms of Service Agreements:

Scholarly analysis of privacy policies and terms of service agreements unveils a recurring theme of complexity and opacity. Scholars widely contend that these legal documents are often fraught with technical jargon, rendering them challenging for average users to fully comprehend. The lack of clarity in these policies creates a significant hindrance, leading to misunderstanding and limited awareness of data sharing practices among users.

H. Examination of User Interface and Settings Related to Data Sharing:

Researchers diligently scrutinize user interfaces and settings relevant to data sharing, revealing a common theme of design influence on user decision-making. Intuitive and transparent user interfaces serve to promote user understanding and control over data sharing practices. On the contrary, convoluted or obfuscated settings act as obstacles to informed consent, underscoring the importance of user-centric design to foster a more informed user base.

I. Evaluation of User Comprehension and Awareness of Data Sharing Practices:

The literature consistently delves into the realm of user comprehension and awareness of data sharing practices, revealing suboptimal levels of understanding among the user population. Studies consistently suggest that users may not fully grasp the extent and implications of data sharing, underscoring the pressing need for robust user education and transparent communication from social media app developers.

3. Analysis

The research on data sharing practices in social media apps has provided valuable insights into the identified gap concerning consent and control. The analysis of the common themes in the literature sheds light on the intricate complexities and challenges surrounding data sharing in the digital landscape.

Identifying the Gap: Discrepancies between Consent and Actual Data Sharing Practices

A. Discrepancies between stated privacy practices and actual data sharing practices:

The research reveals that despite the claims of prioritizing user privacy and control over data sharing in their privacy policies, social media apps often engage in practices that contradict their stated principles. Users may be under the impression that their data is being used responsibly, only to find that extensive sharing with third-party entities occurs, raising concerns about transparency and the need for greater accountability.

B. Lack of granular control and transparency in data sharing options:

The literature consistently highlights the issue of limited granular control over data sharing options in social media apps. Users are presented with broad settings that do not allow them to tailor data sharing according to their preferences. This lack of transparency leaves users in the dark about how their data is utilized and who has access to it, indicating the need for user-centric design and more transparent communication.

C. Challenges in obtaining informed consent and understanding data sharing implications:

A noteworthy finding is the challenges associated with obtaining informed consent from users. Privacy policies and terms of service agreements are often written in complex language, making it difficult for the average user to fully comprehend the implications of data sharing. This knowledge gap leads to uninformed decision-making, stressing the importance of user education and simplification of consent mechanisms.

Privacy Implications and Risks of Data Sharing in Social Media Apps

A. Potential misuse and unauthorized access to shared data:

The research brings to light the potential risks associated with data sharing, including misuse and unauthorized access to user data. The extensive sharing of personal information could lead to data breaches and expose users to the risk of identity theft and other malicious activities. Vigilant data security measures are imperative to protect user privacy and prevent unauthorized data access.

B. Data breaches and security vulnerabilities in data sharing processes:

Data breaches pose a significant threat to user privacy and the security of shared data. Social media apps, being repositories of vast user data, attract malicious actors seeking to exploit security vulnerabilities. Timely security audits and robust security protocols are necessary to safeguard user information from potential breaches.

C. Secondary uses of data and implications for user profiling and targeted advertising:

The literature emphasizes the practice of secondary data uses, wherein user data is leveraged for user profiling and targeted advertising purposes. While these practices enhance user experiences, they raise ethical concerns about data manipulation and potential exploitation of user behavior. Striking a balance between personalized experiences and safeguarding user privacy remains a challenge in the context of data sharing.

User Perspectives and Experiences

A. User attitudes and concerns regarding data sharing practices:

User attitudes towards data sharing practices are diverse, ranging from indifference to significant concerns about privacy. This variance underscores the importance of offering customizable consent options and communicating data sharing practices transparently. Understanding and addressing user concerns are critical to building user trust in social media apps.

B. User behaviors and decision-making in granting consent for data sharing:

User behaviors and decision-making are influenced by the perceived benefits of data sharing, coupled with concerns about potential privacy risks. Tailoring consent mechanisms to align with user preferences and providing clear information about the benefits and risks of data sharing can enhance user decision-making and promote responsible data sharing practices.

C. User reactions to breaches of consent and loss of control over shared data:

When breaches of consent occur, users exhibit reactions ranging from frustration to a loss of trust in the platform. Promptly addressing breaches with transparency and accountability is essential in rebuilding user trust and confidence in data sharing practices.

Legal and Regulatory Frameworks

A. Examination of existing privacy regulations and their adequacy:

In scrutinizing the existing privacy regulations, it becomes evident that various jurisdictions have implemented laws to protect user privacy in the digital realm. The General Data Protection Regulation (GDPR) in the European Union and the California Consumer Privacy Act (CCPA) in the United States are two notable examples. These regulations aim to enhance user control over their data, mandate transparent data practices, and necessitate informed consent. However, the adequacy of these regulations is subject to ongoing debate. While they represent crucial steps forward, the evolving nature of technology and data practices demands continuous evaluation to ensure they remain effective in safeguarding user privacy.

B. Analysis of recent privacy laws and their impact on data sharing practices:

Recent developments in privacy laws have significantly influenced data sharing practices in social media apps. Emerging regulations, such as the ePrivacy Regulation in the European Union and various state-level privacy laws in the United States, aim to address gaps and enhance user privacy. The increasing focus on data minimization, explicit consent, and data subject rights has prompted social media platforms to reevaluate their data sharing practices. However, some challenges persist, such as interpreting and implementing these laws consistently across different platforms and jurisdictions.

C. Evaluation of the role of regulatory bodies in addressing the gap in consent and control:

Regulatory bodies play a pivotal role in addressing the gap in consent and control in data sharing practices. These bodies serve as watchdogs, enforcing privacy regulations and ensuring compliance by social media platforms. However, the effectiveness of regulatory efforts hinges on adequate resources,

enforcement capabilities, and harmonization of global privacy standards. Collaboration between regulatory bodies and industry stakeholders is essential to strike a balance between innovation and privacy protection, fostering an environment where social media apps prioritize user consent and control.

The examination of legal and regulatory frameworks concerning data sharing practices in social media apps showcases the strides made in privacy protection, yet highlights the need for continual evaluation and improvement. As a master's student of big data analytics, understanding the complexities of privacy regulations and their impact on consent and control has reinforced the importance of maintaining a proactive stance in adapting to evolving technologies and user expectations. By refining existing laws, fostering cross-border cooperation, and empowering regulatory bodies, we can establish a robust privacy framework that bolsters user trust and facilitates responsible data sharing practices in social media apps.

In conclusion, the analysis of the literature on data sharing practices in social media apps offers critical insights into the identified gap regarding consent and control. Addressing these challenges requires a multi-faceted approach, including user-centric design, transparency, and user education. As a master's student of big data analytics, my understanding of the complexities surrounding data sharing practices has reinforced the significance of responsible data management, privacy protection, and fostering user empowerment in the digital era. By incorporating these insights into future research and industry practices, we can pave the way for a more privacy-conscious and ethically sound data sharing landscape in social media apps.

4. Discussion

The research findings on strategies for enhancing consent and control in data sharing practices, as well as case studies and best practices, present valuable implications for real-world application. These insights offer actionable steps to address the identified gap in consent and control in social media app data sharing.

Strategies for Enhancing Consent and Control in Data Sharing

A. Improving transparency and user education regarding data sharing practices:

The research highlights the critical role of transparency and user education in empowering users to make informed decisions about data sharing. Social media app developers should prioritize clear and concise communication of data sharing practices in easily understandable language. Incorporating user-friendly explanations, interactive tutorials, and contextual prompts can enhance user awareness and comprehension. Moreover, providing comprehensive privacy dashboards that display the types of data collected and shared, as well as the purposes of such sharing, can foster trust and transparency between users and platforms.

B. Strengthening user consent mechanisms and control options:

The research underscores the need for robust and user-centric consent mechanisms. Social media apps must ensure that consent is obtained explicitly, and in a manner that is separate from other terms and conditions. Implementing granular control options, such as allowing users to select specific data elements for sharing and setting time-bound consents, empowers users to exercise greater control over their data. Additionally, enabling periodic consent reviews and revocation options further reinforces user autonomy. Clear communication regarding the consequences of denying or revoking consent will also facilitate well-informed decision-making.

C. Exploring technological solutions for empowering users in data sharing decisions:

Technological innovations can play a pivotal role in empowering users in data sharing decisions. Social media app developers should explore the implementation of privacy-enhancing technologies, such as differential privacy and federated learning, to protect user privacy while still enabling valuable data insights. Utilizing artificial intelligence and machine learning to provide personalized privacy recommendations can guide users in making privacy-conscious choices. Moreover, incorporating privacy-preserving data sharing architectures, like decentralized data sharing, can minimize the concentration of user data, reducing the risk of large-scale breaches.

Case Studies and Best Practices

A. Review of notable cases highlighting the gap in consent and control:

Analyzing notable cases of data sharing practices that resulted in privacy breaches or user discontent underscores the potential consequences of inadequate consent and control. These case studies serve as cautionary tales and provide valuable insights into the importance of prioritizing user privacy. By learning from past mistakes and understanding the repercussions of poor data sharing practices, app developers and policymakers can proactively address potential pitfalls.

B. Analysis of successful approaches and best practices in data sharing consent and control:

Studying successful approaches and best practices in data sharing consent and control provides valuable models for replication. By examining how certain platforms effectively manage user consent and provide transparent data sharing options, other social media apps can adopt similar practices to enhance user trust and loyalty. Learning from success stories empowers developers to design privacy-friendly interfaces and implement user-friendly consent mechanisms.

C. Lessons learned and recommendations for social media app developers and policymakers:

The lessons learned from research findings emphasize the importance of balancing innovation and privacy protection. Social media app developers should consider user privacy as a foundational principle, incorporating privacy considerations from the inception of app development. Policymakers play a crucial role in shaping the regulatory landscape and can create an environment conducive to responsible data sharing practices. Collaboration between app developers, policymakers, and regulatory bodies is crucial to ensure that privacy laws and regulations keep pace with technological advancements.

In conclusion, the research findings provide a roadmap for translating theoretical knowledge into real-world application. By prioritizing transparency, user education, and user-centric design, social media app developers can bridge the gap in consent and control, fostering a privacy-conscious data sharing environment. The analysis of case studies and best practices offers valuable lessons that inform effective strategies to protect user privacy and data security.

5. Summary & Conclusion

The comprehensive research on data sharing practices in social media apps has led to significant findings regarding the gap in consent and control, with profound implications for user privacy and data protection. Additionally, this research highlights promising directions for future studies aimed at bridging the identified gap. In conclusion, the research on data sharing practices in social media apps has brought to light the existence of a significant gap in consent and control. The key findings indicate discrepancies between stated privacy practices and actual data sharing practices, highlighting the need for improved transparency and user education. The implications for user privacy and data protection are profound, as potential misuse and unauthorized access to shared data can lead to severe privacy breaches.

The implications for user privacy and data protection are far-reaching. The potential misuse and unauthorized access to shared data pose severe threats to individual privacy, leaving users vulnerable to identity theft, fraud, and other malicious activities. The secondary uses of data for user profiling and targeted advertising not only compromise user autonomy but also raise ethical questions about data exploitation and manipulation. The gravity of these implications emphasizes the critical importance of prioritizing user consent and control in data sharing practices to safeguard user privacy and protect sensitive information.

In addressing the identified gap, future research endeavors must prioritize several critical areas. A user-centric design approach is essential to develop interfaces and consent mechanisms that prioritize user comprehension and control. Intuitive and transparent user interfaces, along with contextual information about data sharing practices, will empower users to make informed decisions about their data.

Technological advancements hold promise in bridging the gap between data sharing and user consent. Exploring the implementation of privacy-enhancing technologies, such as differential privacy and federated learning, can strike a balance between data utility and privacy preservation. Decentralized data sharing architectures offer an avenue to minimize data concentration and reduce the risk of large-scale breaches, further promoting responsible data sharing practices.

The examination of existing privacy regulations and their effectiveness is crucial in shaping a robust regulatory framework. Policymakers must continually evaluate the adequacy of current laws to address emerging challenges in data sharing practices. Collaborative efforts between industry stakeholders and regulatory bodies will be instrumental in driving positive change and fostering compliance with privacy regulations.

A. Summary of key findings related to the gap in consent and control in data sharing practices:

Throughout this study, the key findings revolve around the discrepancies between stated privacy practices and actual data sharing practices in social media apps. Users often lack granular control and transparency

in data sharing options, leading to challenges in obtaining informed consent and understanding data sharing implications. Privacy implications include potential misuse and unauthorized access to shared data, data breaches, and secondary uses of data for user profiling and targeted advertising. User perspectives reveal a range of attitudes and concerns, while decision-making regarding data sharing is influenced by perceived benefits and risks. Breaches of consent can significantly impact user trust and confidence in app platforms.

B. Implications for user privacy and data protection:

The implications of the identified gap in consent and control are far-reaching. Users' fundamental right to privacy is at risk when data sharing practices fall short of user expectations. The potential misuse and unauthorized access to shared data can lead to severe privacy breaches, compromising sensitive information and exposing users to identity theft and fraud. The secondary uses of data for user profiling raise ethical concerns about data manipulation and user autonomy. Such privacy implications underscore the urgency to prioritize user consent and control in data sharing practices to safeguard user privacy and data protection.

C. Directions for future research and potential solutions to bridge the identified gap:

Future research in this area should focus on several critical aspects to bridge the gap in consent and control:

1. **User-Centric Design:** Conduct research on designing user interfaces and consent mechanisms that prioritize user comprehension and control. User-centric approaches that consider individual preferences, demographics, and data literacy will empower users to make privacy-conscious decisions.
2. **Technological Solutions:** Investigate the implementation of privacy-enhancing technologies, such as differential privacy and federated learning, to protect user data while still enabling valuable insights for app developers and advertisers.
3. **Privacy Regulations:** Examine the effectiveness of existing privacy regulations and explore opportunities for enhancing regulatory frameworks to keep pace with evolving data sharing practices and technologies.
4. **User Education:** Conduct studies on effective user education strategies to raise awareness about data sharing practices and their implications. Educating users about their rights, risks, and options for data control will lead to better-informed consent.

5. **Industry Best Practices:** Analyze successful approaches taken by platforms that prioritize user privacy and consent. Identifying and promoting best practices can serve as exemplars for the wider industry.
6. **Policy and Governance:** Study the role of regulatory bodies and policymakers in enforcing privacy regulations and shaping responsible data sharing practices. Collaborative efforts between industry stakeholders and regulators are crucial in driving positive change.

In conclusion, the research highlights the importance of addressing the gap in consent and control in data sharing practices to protect user privacy in social media apps. The identified implications underscore the urgency of prioritizing user consent and control to ensure responsible data sharing. Future research and action in the suggested directions can pave the way for a privacy-conscious data sharing landscape that upholds user rights, fosters user trust, and advances responsible data-driven innovation in the digital era. As a master's student of big data analytics, I recognize the significance of these research findings in guiding the development of user-centric data sharing practices that align with ethical standards and respect individual privacy.

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