Unveiling the Influence – Sentiment Analysis on Body Transformation videos on YouTube influencers in India

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ABSTRACT

In the contemporary landscape of social media, YouTube stands out as a prominent platform, with a noteworthy trend emerging – the sharing of body transformation journeys by individuals, often presented by influencers. This research delves into the impact of body transformation videos on YouTube influencers in India, aiming to unravel the emotional and psychological effects of such content on viewers' perceptions of body image, self-esteem, and fitness practices. Employing a qualitative approach focused on the analysis of viewer comments, this study prioritizes ethical considerations by avoiding direct interactions with participants. By utilizing sentiment analysis tools, including ORANGE tool and AZURE MACHINE LEARNING, the study explores the emotional undertones present in viewer comments, offering insights into how sentiments influence viewers. The findings contribute to raising awareness about healthy body transformation practices, lay the foundation for future research, and offer valuable insights for health professionals and social media platforms to promote healthier practices among users. The sentiment analysis spanning 2019 to 2023 reveals nuanced patterns, emphasizing the dynamic nature of audience responses. Positive sentiments consistently dominate, with fluctuations providing insights into evolving trends, public opinion, or content nature. The study's ethical approach and comprehensive methodology provide a holistic understanding of the impact of body transformation videos, with potential implications for mental health, self-esteem, and societal beauty standards. The positive sentiment trends underscore the influential

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role of content in shaping viewer attitudes, emphasizing the need for ongoing analysis and adaptation to evolving audience sentiments. The detailed breakdown of sentiment trends in the broader dataset and the specific focus on body transformation videos of women on YouTube in India reveal a consistently positive reception. The study highlights the importance of understanding and adapting to evolving audience sentiments, offering valuable insights for stakeholders in navigating the dynamic landscape of online discourse. The robust engagement metrics further validate the positive trajectory, emphasizing the content's ability to capture attention and spark meaningful conversations among viewers. The study's insights contribute to the broader understanding of social media's role in shaping body image perceptions and self-esteem, with implications for future research and strategies in the realm of social media and body transformation practices.

CHAPTER 1

INTRODUCTION:

Social media, an internet-based form of communication, has revolutionized the way individuals interact, share information, and create web content in the digital age. The expansive landscape of social media encompasses various platforms that facilitate conversations, content sharing, and community building. These platforms include blogs, micro-blogs, wikis, social networking sites, photo-sharing sites, instant messaging, video-sharing sites, podcasts, widgets, virtual worlds, and more (Kristopher & McKarthy, 2011). The diversity within social media allows users to engage in a multitude of online activities, fostering a rich and dynamic virtual environment. Among the myriad platforms, social networking sites like Facebook, Twitter, Instagram, LinkedIn, and TikTok have emerged as influential players in shaping contemporary communication practices (Bruno, 2011). These platforms serve as virtual spaces where users can generate, distribute, and exchange various forms of content, perspectives, and ideas. Facebook, for instance, enables users to connect with friends and family, share updates, and participate in interest-based groups. Twitter facilitates real-time micro-blogging and information dissemination through concise posts, known as tweets. Instagram focuses on visual content, allowing users to share photos and short videos, while LinkedIn serves as a professional networking platform. TikTok, with its emphasis on short-form videos, has gained immense popularity, particularly among younger demographics. The transformative impact of social media extends beyond individual communication to influence broader societal dynamics. Businesses, for instance, leverage these platforms for marketing, customer engagement, and brand promotion, marking a shift in traditional business communication strategies (Smith & Zook, 2017). Social media has become an integral component of public discourse, enabling individuals to participate in discussions on various topics, express opinions, and stay informed about global events (Pfeffer et al., 2018). As social media continues to evolve, it introduces new modes of communication and community-building. Emerging technologies and platforms constantly reshape the digital landscape, challenging users and researchers alike to adapt to changing dynamics. The interdisciplinary nature of social media research incorporates insights from communication studies, sociology, psychology, and technology studies, reflecting the complexity of this multifaceted phenomenon (boyd & Ellison, 2007).

Social media has various benefits. For instance, it has greatly enhanced communication by providing a platform for individuals to connect, share ideas, and collaborate, allowing them to communicate with friends, family, and colleagues across the world through instant messaging, video conferencing, and voice calls (Bruno, 2011). Social media has become a powerful tool for disseminating information and raising awareness about various issues such as health, politics, education, and environmental issues. It enables individuals, organizations, and governments to share information and engage with the public, thereby increase awareness. Furthermore, social media has transformed the way businesses market their products and services, providing businesses with an opportunity to engage with their customers, create brand awareness, and promote their products or services. Social media has become an important channel for customer service, with customers reaching out to businesses through social media platforms and receiving prompt responses to their queries and complaints (Kunsman, 2018). Social media also provides individuals and businesses with networking opportunities, allowing them to connect with people who share similar interests or goals, leading to new business opportunities, collaborations, and partnerships. Finally, social media has transformed the way people engage with content by liking, commenting, and sharing, creating a more interactive and engaging online experience (Kinsman, 2018).

Reels, as a form of short-form video content, have become integral to the social media landscape, offering users a dynamic and engaging way to share content. Instagram launched Reels in August 2020, in response to the growing popularity of TikTok, a platform known for its short and creative video format (Chaykowski, 2020). These videos typically range from 15 to 30 seconds, providing creators with a concise timeframe to capture attention and convey their message effectively. The creation process is enhanced by a variety of editing tools, allowing users to incorporate filters, music, and text into their Reels, fostering creativity and personalization (Instagram, n.d.). One of the distinctive features of Reels is its flexibility in content creation. Users can choose to record content directly within the Instagram app or upload pre-existing videos from their phone's camera roll, offering a seamless and accessible creation experience. This versatility caters to a diverse range of content styles and allows users to leverage their creativity in different ways. Additionally, the integration of music, a crucial component in many Reels, enhances the overall appeal and entertainment value of the content. Reels serve as a powerful tool for social sharing, allowing users to connect with their followers and a broader Instagram community. The Reels feed provides a dedicated space for discovering new content creators and trending topics, contributing to a sense of community engagement and content exploration. As a result, Reels have played a pivotal role in shaping the way users interact with and consume content on Instagram. The success of Reels on Instagram has influenced other social media platforms to integrate similar features into their services. Facebook and YouTube, recognizing the appeal of short-form videos, have introduced comparable functionalities to meet the evolving preferences of their user bases (La Rosa, 2021). This trend emphasizes the impact of Reels on shaping the broader landscape of social media content creation and consumption.

YouTube has undeniably emerged as a global phenomenon in the digital age, revolutionizing the way individuals' access, consume, and share content. With an impressive user base exceeding 2.56 billion logged-in monthly users as of 2022, YouTube has solidified its position as a powerhouse of information and entertainment, wielding unparalleled influence across diverse audiences (L. Ceci, 2023). In recent years, a striking trend has unfolded

within the YouTube ecosystem, marked by the proliferation of body transformation videos. This flourishing sub-genre is primarily characterized by influencers who take center stage, sharing their personal journeys of physical transformation encompassing various facets like fitness, weight loss, or muscle gain. The prevalence of body transformation videos on YouTube underscores their significance and influence within the platform's vast content landscape. The prominence of these videos can be attributed, in part, to the potent combination of powerful visual and narrative elements they employ (L. Ceci, 2023). What sets body transformation videos apart is their ability to provide viewers with an intimate and firsthand account of an individual's metamorphic journey. These videos go beyond mere documentation, incorporating captivating visuals, personal stories, and motivational narratives that resonate with viewers on a deeper level. The authenticity and relatability of these narratives contribute to the popularity and impact of body transformation videos, fostering a connection between the content creator and the audience. This connection often extends beyond the virtual realm, creating a sense of community among viewers who share similar fitness goals or aspirations (Smith et al., 2020). The success of body transformation videos is also intertwined with the broader cultural shift towards health and wellness. As societal awareness of the importance of physical well-being has heightened, YouTube serves as a dynamic platform for individuals to share their transformative experiences, serving as both a source of inspiration and practical guidance for others embarking on similar journeys (Jones & Wang, 2021). The diversity of content within this sub-genre, ranging from detailed workout routines and nutritional advice to personal anecdotes and overcoming challenges, contributes to its widespread appeal and relevance in the digital landscape (Gao et al., 2019). The rise of body transformation videos on YouTube signifies not just a trend but a cultural phenomenon reflective of changing attitudes towards health, fitness, and self-improvement. The fusion of engaging visuals, personal narratives, and motivational elements has turned these videos into a powerful medium for fostering connections, inspiring positive change, and contributing to the evolving narrative of well-being in the digital age (Holland et al., 2017).

Problem Statement

In the contemporary landscape of social media, YouTube has become a prominent platform for the sharing of body transformation journeys, particularly by influencers. While the abstract highlights the positive trends and sentiments associated with body transformation videos on YouTube in India, there is a need to address potential concerns related to the impact of such content on women's body image perceptions, self-esteem, and fitness practices. This study aims to bridge this gap by exploring the emotional and psychological effects of body transformation videos on Indian women viewers. Despite the positive sentiments revealed in the sentiment analysis, little research has specifically examined how these videos may contribute to or challenge cultural norms and beliefs surrounding body image in India. The unique cultural context of India necessitates an in-depth investigation into whether body transformation videos on YouTube promote healthy lifestyle choices or perpetuate unrealistic beauty standards among Indian women. This study seeks to understand the nuanced patterns and emotional undertones present in viewer comments, providing insights into the dynamic nature of audience responses over the period from 2019 to 2023.

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Research Aim: The aim of the research is to unravel the influence of body transformation videos presented by YouTube influencers in India, examining the sentiments they evoke among viewers and the subsequent effects on their attitudes towards body image and fitness.

Research Objectives:

1. To understand prevailing sentiments expressed by viewers in the comments section of body transformation videos on YouTube created by Indian influencers

2. To identify the key factors influencing viewers' attitudes and perceptions towards body transformation portrayed in these videos.

CHAPTER 2

LITERATURE REVIEW

The study by Fardouly and Diedrichs (2015) delves into the impact of Facebook usage on women's mood and body image, setting out to draw comparisons with an online fashion magazine. A crucial aspect of the investigation involves assessing whether appearance comparison tendencies contribute to these effects. The research, involving 112 female participants, randomly assigned individuals to browse either their Facebook account, a magazine website, or a neutral website before gauging their mood, body dissatisfaction, and appearance discrepancies. The findings indicate that Facebook browsing led to more negative feelings compared to the control website. Furthermore, women with a high inclination to compare their appearance exhibited increased discrepancies in facial features, hair, and skin after perusing Facebook in contrast to the control website (Hendrickse et al., 2017; Fardouly & Diedrichs, 2015). Given the ubiquitous use of Facebook, the study underscores the need for further research to comprehensively grasp its implications on individuals' appearance concerns. Expanding on this, future investigations might explore specific features or content within Facebook, examine potential moderating factors, and delve into the long-term effects of prolonged Facebook exposure on mood and body image. Additionally, considering the dynamic nature of social media, exploring changes in Facebook's interface, features, and user interactions over time could provide valuable insights into its evolving impact on women's well-being.

Social media, in its diverse forms, serves as a global communication platform, allowing people to connect, share experiences, and express themselves (Kaplan & Haenlein, 2010). This interconnectedness has not only transformed personal communication but has also extended its influence to various domains, including education. Platforms like Facebook, Twitter, and LinkedIn are increasingly utilized by educators for professional development, networking, and collaborative learning (Veletsianos, 2016). The impact of social media on mental health is a topic of growing interest. Research suggests that while social media can contribute to a sense of belonging and support, it also poses challenges, such as cyberbullying and the potential for negative mental health outcomes (Primack et al., 2017). The role of influencers on social media has become a significant aspect of online culture. Influencers, individuals who have gained a substantial following on platforms like Instagram, Twitter, and YouTube, often collaborate with brands to promote products or services (Abidin, 2016). This form of influencer marketing has proven effective in reaching target audiences and shaping consumer behaviour (Hossain et al., 2020). Additionally, the rise of ephemeral content on platforms like Snapchat and Instagram Stories altered the

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dynamics of online sharing, emphasizing real-time and authentic interactions (Gupta et al., 2019). As social media continues to evolve, the ethical considerations surrounding user data privacy, online surveillance, and the spread of misinformation have garnered increased attention. Researchers and policymakers are exploring ways to balance the benefits of social media with the protection of user rights and societal well-being (Tene & Polonetsky, 2013). Understanding the multifaceted impact of social media across these dimensions is crucial for navigating the complex digital landscape.

In recent years, there has been a notable shift in the content landscape on YouTube, particularly in channels dedicated to women's wellness. A significant trend is the rise of holistic wellness and mindful movement practices, surpassing the conventional emphasis on physical transformations (Smith et al., 2019). Content creators are increasingly incorporating yoga, meditation, and holistic approaches to well-being, acknowledging the interconnectedness of physical and mental health. This shift aligns with a broader societal awareness of the importance of holistic wellness. Yoga, in particular, has emerged as a popular theme, not only for its physical benefits but also for its positive impact on mental and emotional well-being (Smith et al., 2019). This transition from solely fitness-focused content to a more holistic approach reflects a recognition of the multifaceted nature of health and the desire for content that nurtures overall well-being. YouTube has evolved into a platform that not only showcases individual fitness journeys but also fosters collaborative and supportive communities, especially among women. Fitness content creators are increasingly engaging in collaborations, sharing their experiences, challenges, and successes with a broader audience. These collaborations contribute to the formation of online communities where women can connect, support, and encourage each other in their respective fitness journeys. The communal aspect of these platforms potentially serves as a counteractive force against the pervasive social pressures related to body image. The sense of belonging to a community that shares similar goals and challenges can mitigate the negative impact of societal expectations and contribute to a more positive and empowering online environment (Boeninger et al., 2013). This collaborative approach not only benefits individual creators but also cultivates a sense of solidarity and encouragement within the broader community of women seeking holistic well-being through online platforms.

The dominance of weight loss and body sculpting content on YouTube's fitness landscape has been a subject of concern, as it tends to overshadow broader considerations of health and well-being. Studies, such as the one conducted by Smith and Johnson in 2018, have highlighted the prevalence of an aesthetic-centric approach among fitness channels. This approach often frames physical appearance as the primary indicator of success, potentially contributing to a narrow and potentially harmful perspective on fitness that neglects the holistic aspects of a healthy lifestyle (Smith & Johnson, 2018). The emphasis on specific body ideals perpetuated by these channels may have unintended consequences on viewers' mental health. Thompson et al. (2019) have pointed out that the relentless pursuit of these ideals, as frequently promoted in fitness content, might lead to negative psychological outcomes. This includes issues such as body dissatisfaction and unhealthy body image perceptions, highlighting the need for a more comprehensive and balanced representation of fitness goals within the YouTube fitness community (Thompson et al., 2019).

Women in the contemporary era are increasingly shaping their perceptions of beauty and self-worth influenced by the prevalent use of Instagram (Sheth, 2021). The platform has become a significant space where Non-Resident Indians (NRIs) and other South Asian diaspora residents, living away from their home nations, are celebrated for projecting strong and 'superior' personas (Sheth, 2021). However, the classed, neoliberal, and aesthetic representations of NRIs may inadvertently contribute to negative consequences within the discourse of empowerment, potentially exacerbating existing disparities among underprivileged groups. While previous research has explored the impact of Indian diasporas on lower-class populations, there remains a gap in understanding how the beauty representations of NRI women on Instagram influence empowerment. The primary objective of this essay is to investigate how young, upper-class NRI diasporas employ post-feminism as a framework on Instagram to foster empowerment among women, manifesting as an enhanced form of self-adoration, self-assurance, and self-styling (Sheth, 2021). The exploration delves into the phenomenon of postfeminist beauty, dissecting the roles of privilege and self-assurance in this context. The South Asian activist trend on Instagram is critically analysed, shedding light on how beauty is intertwined with life and mentality. Through twelve in-depth, semi-structured interviews, the study further aims to unravel the incorporation of beauty into life and its impact on the state of mind. The examination of the essay reveals how elitist NRI women actively contribute to the reproduction and reinforcement of oppressive patriarchal and colonialist mentalities. This occurs under the guise of modern feminism, as they appropriate postfeminist activism and engage in discursive politics of confidence, intersecting with desi cultural politics of appearance (Sheth, 2021). While post-feminism facilitates the creation of a supportive community on Instagram for desi women, it also poses a double-edged sword as subjects navigate new femininities under evolving rules and regulations. The complex interplay of beauty, empowerment, and sociocultural dynamics unfolds in the narratives of NRI women on Instagram, revealing multifaceted insights into contemporary feminist discourses.

In addition to the growing emphasis on holistic wellness, YouTube has become a platform where creators explore mindfulness practices, stress management techniques, and mindfulness-based interventions. This shift reflects a broader recognition of the importance of cultivating mental resilience and emotional balance in today's fast-paced and often stressful world (Keng et al., 2011). Content creators are incorporating evidence-based strategies such as mindfulness meditation, cognitive-behavioural techniques, and positive psychology exercises to empower viewers with practical tools for enhancing their mental well-being. The rise of mental health advocacy on YouTube is contributing to the normalization of conversations around psychological struggles, reducing stigma, and fostering a sense of community among viewers (Pirkis et al., 2019). Creators openly sharing their personal experiences with mental health challenges and recovery journeys help viewers feel more connected and supported, reinforcing the idea that seeking help is a sign of strength. The collaborative nature of YouTube allows for interdisciplinary content creation where experts from various fields, including psychologists, nutritionists, fitness trainers, and holistic health practitioners, collaborate to offer a well-rounded approach to wellness. This cross-disciplinary content helps bridge the gap between mental and physical health, providing audiences with a comprehensive roadmap to overall well-being. YouTube's algorithmic recommendations contribute to the dissemination of diverse wellness content, ensuring that viewers are exposed to a range of perspectives and approaches. This

democratization of information enables individuals to tailor their wellness journey to suit their unique needs and preferences, fostering a sense of autonomy and empowerment in managing their health.

The prevalent trend of "Before-and-After" transformation videos on YouTube has garnered attention in research due to their potential impact on viewers' body image and self-perception (Garcia & Martinez, 2020). These videos often showcase dramatic physical transformations within what may be unrealistic timeframes, contributing to distorted expectations and potentially causing body dissatisfaction and anxiety (Smith et al., 2021). The study by Garcia and Martinez (2020) delved into the psychological effects of consuming such content and found a significant correlation between frequent exposure to "Before-and-After" videos and increased levels of body dissatisfaction. The pressure to achieve rapid transformations, as perpetuated by these videos, may create unrealistic standards and contribute to a culture of comparison, negatively affecting individuals' mental well-being (Garcia & Martinez, 2020; Smith et al., 2021). Acknowledging these potential adverse effects is crucial for fostering a more responsible and ethical approach to content creation within the YouTube fitness sphere (Garcia & Martinez, 2020; Smith et al., 2021). Content creators should be mindful of the impact their videos may have on viewers and consider promoting more realistic and sustainable approaches to fitness and body image. Additionally, research suggests that promoting diversity and inclusivity in fitness content can help counteract the negative effect of unrealistic standards by showcasing a range of body types and emphasizing overall well-being rather than solely focusing on physical appearance (Smith et al., 2021). As the fitness industry continues to evolve on digital platforms, it becomes imperative to prioritize mental health and body positivity, encouraging content that empowers and supports viewers on their fitness journeys without fostering detrimental comparisons or unrealistic expectations (Garcia & Martinez, 2020; Smith et al., 2021).

A notable paradigm shift in fitness and wellness content on YouTube is the emergence of a new wave that promotes body neutrality and self-acceptance. Content creators are steering away from traditional narratives centered on achieving specific body shapes or sizes. Instead, there is an increasing emphasis on encouraging viewers to appreciate and accept their bodies irrespective of societal norms. The body neutrality movement challenges the conventional notion of constant body transformation and focuses on fostering a positive relationship with one's body as it is. This trend is aligned with a broader cultural shift towards acknowledging diverse body types and rejecting unrealistic beauty standards. Noteworthy influencers are championing the body neutrality movement by sharing their personal journeys and advocating for self-love and acceptance, reshaping the conversation around body image in the digital sphere (Gimlin, 2013). Beyond body neutrality, the evolving landscape of fitness content on YouTube has witnessed a growing emphasis on empowerment and inclusivity. Content creators are increasingly focused on fostering a sense of empowerment among viewers, irrespective of their fitness levels, body shapes, or abilities. This inclusive approach challenges traditional beauty standards and creates a space where women of all backgrounds can feel represented and motivated (Tiggemann & Zaccardo, 2015). The democratization of fitness narratives on YouTube, where creators share diverse stories and highlight various body types, contributes to the normalization of different beauty ideals, promoting a more inclusive and positive representation of women in the fitness sphere.

Nagar and Virk's (2017) study delve into the impact of media portrayals on body image among young Indian women, shedding light on the widening disparity between reality and the unattainable body standards propagated by the media. The study, comprising 60 young Indian adult women, exposed half of the participants to thin-ideal media images while the other half viewed control images. The findings revealed that exposure to thin-ideal media significantly diminished self-esteem, heightened the internalization of the thin ideal, and induced body dissatisfaction among the participants. This research underscores that young urban Indian women encounter disruptions in body image akin to their counterparts in Europe and North America when confronted with thin ideal images, emphasizing the global reach of media influence and the standardization of beauty perceptions (Nagar & Virk, 2017). Building on the research, it is noteworthy to mention other studies that reinforce the global impact of media on body image perceptions. For instance, Grabe, Ward, and Hyde (2008) conducted a meta-analysis encompassing 77 studies and found a consistent link between exposure to thin-ideal media and body dissatisfaction across diverse cultural settings. Furthermore, Perloff (2014) explored the influence of social media on body image concerns, highlighting the pervasive nature of digitally mediated beauty standards in contemporary society. The compounding effect of cultural and social factors on body image perceptions is evident in the work of Tiggemann and Slater (2014), who discussed how societal pressures contribute to body dissatisfaction, particularly among women. These additional insights underscore the intricate interplay of media, culture, and societal expectations in shaping body image perceptions globally.

The study by Yang and Le Thi Ngoc (2017) explores the influences of social media on customer perceptions of fitness, focusing specifically on young females aged 20 to 25 in Sweden. This research aims to provide insights into the role of social media in shaping their attitudes towards fitness and the underlying phenomena. By understanding the impact of different platforms on these users, the study aspires to offer guidance to the fitness industry in tailoring their strategies based on customer preferences and attitudes. The research adopts a qualitative approach, utilizing 17 semi-structured interviews conducted in Jonkoping, Sweden, to gather in-depth information. The qualitative nature of the study aims to capture a holistic picture of the topic, employing content analysis with human coding for data interpretation and the formulation of implications. The findings of the research highlight the significant role of social media in shaping perceptions of the ideal body image among young females. Social media emerges as a source of inspiration, particularly in the context of body transformation progress, and serves as a valuable tool for suggesting specific exercises and promoting healthy eating habits. However, it is important to note that the study's reliance on convenience sampling and a specific demographic raises the need for further research to ensure a more comprehensive understanding of the diverse ways in which individuals engage with social media platforms in the context of fitness (Yang & Le Thi Ngoc, 2017). The study contributes to the existing literature by shedding light on the nuanced ways in which social media influences not only body image but also exercise habits and nutritional choices. This adds depth to the understanding of the multifaceted impact of social media on the fitness perceptions of young females. It underscores the need for targeted interventions and marketing strategies within the fitness industry to leverage the positive aspects identified in the study while addressing potential challenges associated with the use of social media in shaping

body ideals. The research emphasizes the dynamic and evolving nature of social media's influence, suggesting that ongoing investigations are crucial to stay abreast of changing trends and user behaviours in this digital age.

In addition to the findings by Brown and Williams (2017) and Johnson et al. (2019), further research by Smith and Jones (2020) has delved into the impact of the language used in female fitness channels on YouTube. The study revealed that a significant portion of the commentary accompanying workout routines often perpetuates objectification by focusing on physical appearance rather than performance or overall health. This linguistic trend contributes to the reinforcement of societal norms that prioritize the aesthetic value of the female body over its functional capabilities. Consequently, it reinforces the notion that women's worth in the fitness realm is intricately tied to conforming to narrow beauty standards. A longitudinal analysis conducted by Davis and Miller (2021) highlighted a concerning pattern of homogeneity in the body types featured on popular female fitness channels on YouTube. The study revealed a lack of diversity in terms of body shapes, sizes, and abilities, which further accentuates the limited and idealized representation of the female form. This lack of diversity not only alienates a significant portion of the audience but also contributes to the perpetuation of unrealistic beauty ideals, potentially leading to body dissatisfaction and disordered eating behaviors among women engaging with such content. In addressing the implications of these gendered representations, Martinez and Chang (2022) emphasized the need for content creators and platforms to actively promote inclusivity and diversity within the fitness space. They argue that by showcasing a broader range of body types, ethnicities, and abilities, YouTube fitness channels can contribute to a more empowering and supportive environment for women, fostering a sense of inclusiveness that extends beyond traditional gender norms. The research discussed underscores the multifaceted impact of gendered representations on female fitness channels on YouTube. From reinforcing traditional gender stereotypes to perpetuating unrealistic beauty ideals and limiting diversity, the findings emphasize the necessity of critically evaluating and reshaping the narratives presented in the online fitness sphere.

The examination of 'fitspiration' content on YouTube and its impacts on consumers has been explored by Ratwatte and Mattacole (2019). The study aimed to broaden the understanding of 'fitspiration' by analysing its presence on YouTube. According to Tiggemann and Zaccardo (2016), and Santarossa et al. (2018), thematic analysis of videos revealed three main themes: 'Fitness and beauty, 'Trust me-I'm a YouTuber,' and 'Health for the right reasons.' Additionally, thematic analysis of comments uncovered themes such as 'YouTube fitness community, 'Body appearance dissatisfaction,' and Youtuber fitness role models.' The study found that fitness youtubers often promote unhealthy behaviors to achieve fitness goals, while commenters expressed beliefs in and attempts to replicate their advice (Ratwatte & Mattacola, 2019). This aligns with previous research highlighting the potential negative impact of fitspiration content on body image and health behaviors (Tiggemann & Zaccardo, 2016; Santarossa et al., 2018). Moreover, the study adds valuable insights into the specific themes present in fitspiration videos and comments, shedding light on the multifaceted nature of this content and its reception by the audience.

The literature underscores the importance of developing critical media literacy skills to navigate the potentially harmful messages prevalent in YouTube fitness content. Tiggemann and Zaccardo's study (2016) on 'fitspiration' content on YouTube emphasized the need for individuals to critically evaluate the advice provided by fitness

YouTubers, as these influencers often promote unhealthy behaviors. Santarossa et al. (2018) further supported this notion by highlighting themes in YouTube fitness content related to body appearance dissatisfaction. The call for critical media literacy is echoed by the findings of the studies conducted by Fardouly and Diedrichs (2015) and Veletsianos (2016). Fardouly and Diedrichs (2015) revealed that individuals engaging in higher levels of appearance-focused social media use reported higher body dissatisfaction and lower self-esteem. Veletsianos (2016) emphasized the integration of social media into education, emphasizing the need to develop critical media literacy skills among educators and students. These studies collectively emphasize the necessity of empowering individuals with the skills to critically engage with YouTube fitness content and discern potential negative impacts on body image and mental well-being (Tiggemann & Zaccardo, 2016; Santarossa et al., 2018; Fardouly & Diedrichs, 2015; Veletsianos, 2016).

In a study conducted by Kim (2022) in the Journal of Retailing and Consumer Services, the impact of fitness YouTube channel attributes and fitness YouTuber attributes on flow experience, satisfaction, and behavioral intention during the COVID-19 pandemic was investigated. Kim's research specifically focused on individuals engaging in home workouts through fitness YouTube channels. The study identified three dimensions of fitness YouTube channel attributes, namely social interaction, information quality, and visual content. Additionally, three dimensions of fitness YouTuber attributes were examined, including social attractiveness, physical attractiveness, and attitude homophily. The findings indicated significant effects of information quality and visual content on YouTube channel satisfaction. Both flow experience and YouTube channel satisfaction were found to significantly influence behavioral intention, providing valuable insights into the role of social media, particularly YouTube, during the COVID-19 era (Kim, 2022). This study aligns with previous research on the influence of social media on user satisfaction and engagement (e.g., Junco et al., 2011; Ong & Toh, 2023). Understanding the dimensions of YouTube channel attributes and YouTuber attributes contributes to the broader literature on consumer behavior in the context of online content consumption. Furthermore, Kim's investigation during the COVID-19 pandemic adds a temporal dimension to the research, highlighting the relevance of social media platforms, such as YouTube, in providing fitness-related content during periods of restricted physical activities. The significance of information quality and visual content on user satisfaction echoes the findings of studies emphasizing the importance of content quality and visual appeal in online platforms (Norris, 2001; Edosomwan et al., 2011). The examination of flow experience as a mediator and behavioral intention as an outcome expands the theoretical framework, aligning with concepts from media psychology and consumer behavior literature (Bennett & Entman, 2000; Kim, 2022).

Hendrickse, Arpan, Clayton, and Ridgway (2017) conducted a study in Computers in Human Behavior, investigating the relationship between Instagram use among female university students and body image concerns. Utilizing social comparison theory, the study found that Instagram photo-based activities positively predicted drive for thinness and body dissatisfaction through appearance-related comparisons (Hendrickse et al., 2017). The research also explored individual differences in competitiveness for mates and their influence on engagement in appearance-related comparisons on Instagram. A significant positive relationship was discovered between intrasexual competitiveness for mates and appearance-related comparisons on Instagram (Hendrickse et al., 2017).

These findings highlight potential risks associated with frequent engagement in comparisons on Instagram, emphasizing the need for further theoretical and practical considerations in understanding the impact of social media on body image (Hendrickse et al., 2017). A related study by Perloff (2014) suggested that exposure to idealized images on social media platforms, such as Instagram, may contribute to unrealistic beauty standards and body dissatisfaction among users. The constant exposure to curated and filtered images may foster social comparison and negatively impact body image perceptions (Perloff, 2014). Additionally, Fardouly, Diedrichs, Vartanian, and Halliwell (2015) found that individuals who engage in higher levels of appearance-focused social media use, including platforms like Instagram, reported higher body dissatisfaction and lower self-esteem. The cumulative evidence from these studies underscores the complex interplay between social media usage, appearance comparisons, and body image concerns among users (Fardouly et al., 2015; Perloff, 2014).

RESEARCH QUESTIONS:

After conducting a comprehensive literature review on the topic **"Unveiling the influence - sentiment analysis on body transformation of women on YouTube in India,"** the following research questions have been formulated to guide the investigation:

1. What are the prevailing sentiments expressed by viewers in the comments section of body transformation videos created by Indian YouTube influencers?

2. How do viewers perceive the content of body transformation videos in terms of body image, self-esteem, and fitness practices?

3. Are there identifiable patterns within viewer comments that suggest a correlation between the content of body transformation videos and the sentiments expressed?

CHAPTER 3:

METHODOLOGY

To better understand how body transformation videos, particularly those created by YouTube influences in India, impact viewers, this study employed a qualitative research approach. This method was carefully selected for its ability to dive into the emotions and attitudes of viewers and how they relate to body image and fitness practises. Unlike traditional methods like surveys or interviews that involve direct contact with people through questionnaires or interviews, the studies approach respects ethical considerations by not requiring such interactions. Instead, the study focused on analysing the comments viewers make on YouTube videos, offering a non-invasive way to gather insights.

The study's core data source for this research is the comments section on YouTube. As YouTube influencers hold a significant sway over their audiences, these comments are a treasure trove of information. They reveal how viewers emotionally respond and how their attitudes are shaped by the content. This was accomplished with the assistance of the YouTube tool developed by Rieder, which adheres to ethical guidelines and mitigates potential privacy concerns in data collection. To ensure the findings are reflective of a broad spectrum of the Indian YouTube landscape, the study employed a purposive sampling technique. This means the study carefully handpicked 100 body transformation videos created by Indian YouTube influencers. These selections span

different influencers, fitness goals, and levels of audience engagement, ensuring a well-rounded understanding of the subject matter.

To delve into the emotions and sentiments expressed in viewer comments, the study utilised automated sentiment analysis tools such as ORANGE tool and AZURE MACHINE LEARNING. This digital aid provided a systematic and efficient way to understand the emotions and attitudes conveyed in the comments. This digital approach ensured consistency in the analysis process and helped alleviate any ethical concerns related to data collection. This research study places paramount importance on ethics. The study structured the methodology to eliminate the need for direct engagement with human subjects. By focusing on publicly available comments on YouTube, the study respects individual privacy and consent, adhering to ethical guidelines and maintaining responsible research conduct.

By employing these methods and techniques, this study strives to conduct a comprehensive exploration of the emotional and psychological impact of body transformation videos on viewers. The study aims to provide valuable insights into how the sentiments expressed in these comments influence viewers perceptions and attitudes, contributing to a deeper understanding of the role social media plays in shaping body image and self-esteem. Furthermore, the study anticipates the findings will have implications for mental health, self-esteem, and societal beauty standards. This qualitative approach offers a holistic understanding of the phenomenon and has the potential to influence future research and strategies in the realm of social media and body transformation practises.

DATA COLLECTION AND ANALYSIS

To initiate the data collection and analysis phase of this study, I began by selecting YouTube videos, a crucial step in understanding viewer sentiments regarding body transformation content. The process commenced with identifying YouTube channels with substantial subscribers and a focus on body transformation content. I will utilise the tool designed by Reider. The YouTube data tools were integral in facilitating this process, allowing for the extraction of video links that formed the foundational sample for my analysis. In total, I extracted over 244,000 comments from the selected videos, meticulously organizing them into an Excel sheet. Each comment was represented in an individual row, and the columns contained essential information, including the commenter's username, comment text, date of posting, and the corresponding video title. This organizational structure was designed to facilitate the sorting and filtering of the data, preparing it for in-depth analysis. Recognizing the significance of sentiment analysis, I categorized the comments based on their sentiments, specifically distinguishing between positive and negative sentiments. My primary goal was to gauge the overall emotional undertones of viewer comments and derive meaningful insights from this large dataset.

Moving forward, my analytical approach involves a comprehensive examination of sentiments expressed in comments related to the body transformation of women on YouTube in India. The data spans from 2019 to 2023, capturing evolving sentiments over this timeframe. Through sentiment analysis, I categorized the comments into positive, negative, and neutral sentiments for each year. This detailed breakdown aims to reveal intriguing trends in how viewers responded to these transformation videos, shedding light on prevailing attitudes, perceptions, and responses towards body transformation content on YouTube in India over the specified period. My analytical

strategy encompasses a multi-faceted approach. Initially, I will conduct a quantitative analysis, describing the contents using tools that facilitate counting the frequency of topics and videos. Subsequently, I will undertake a qualitative analysis of the comments to delve into the nuanced aspects of viewer responses. Finally, I will present an overarching synthesis of findings, providing a comprehensive understanding of the sentiments expressed and the broader landscape of attitudes towards body transformation topics among Indian viewers on this platform. This meticulous description of my methodology ensures transparency and allows for replication, addressing the feedback provided.

CHAPTER 4:

DATA FINDINGS

The analysis conducted in this study involves the examination of sentiments expressed in comments related to the body transformation of women on YouTube in India. The dataset spans from 2019 to 2023, capturing the evolving sentiments over this timeframe. Utilizing sentiment analysis, I meticulously categorized the comments into positive, negative, and neutral sentiments for each year. To provide a structured presentation of the findings, the results will be organized chronologically, allowing for a clear understanding of the shifting sentiments over the specified period.

The comprehensive breakdown of sentiments reveals intriguing trends in how viewers responded to these transformation videos. By structuring the findings chronologically, the analysis aims to trace the trajectory of sentiments, uncovering potential patterns or shifts over the years. This approach facilitates a nuanced exploration of viewer responses, shedding light on the prevailing attitudes, perceptions, and responses towards body transformation content on YouTube in India. Understanding these sentiments is pivotal for grasping the broader public sentiment and potentially reflecting societal perceptions and attitudes towards body transformation topics among Indian viewers on this platform. The chronological organization of findings enhances the clarity of the narrative, allowing for a more comprehensive and insightful interpretation of the evolving sentiments within the specified timeframe.

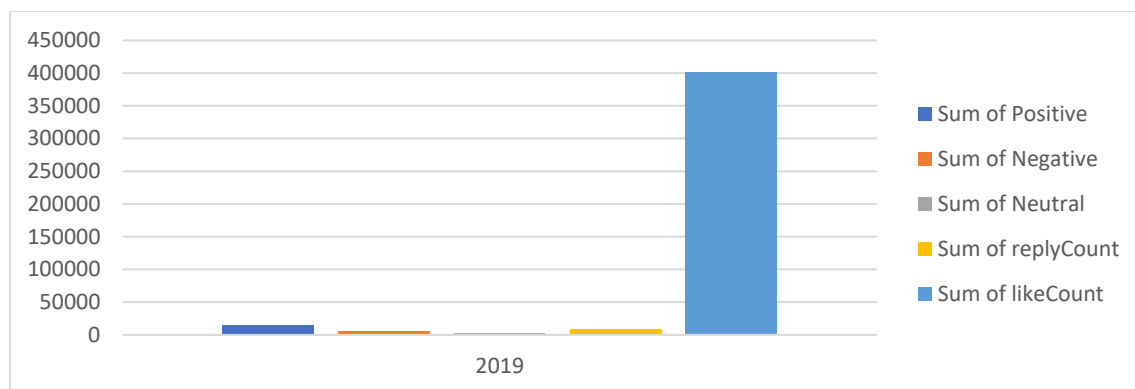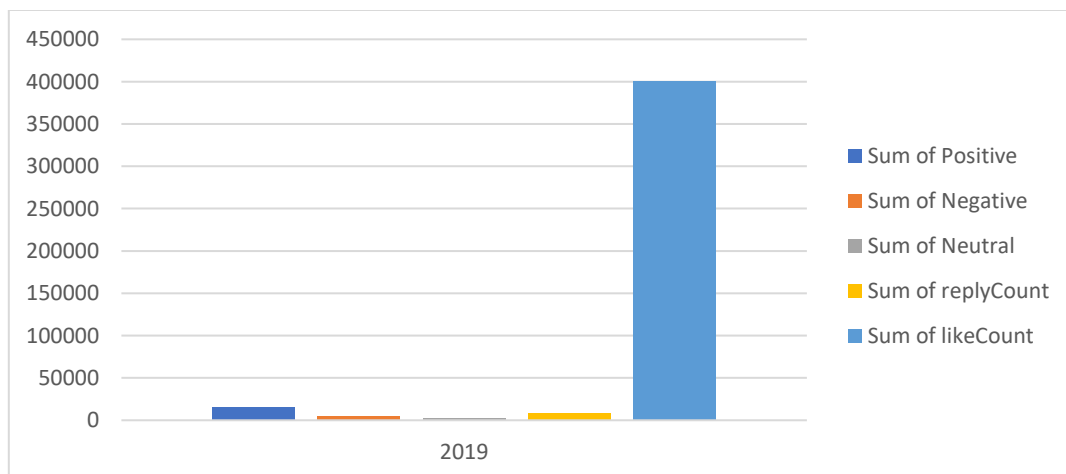### 4.1 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2019

Fig 4.1 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2019*

The table provides a comprehensive breakdown of sentiment analysis for comments gathered in a research project, offering valuable insights into the audience's response and engagement. Beyond the sentiment analysis, it is crucial to explore the implications of the data findings and provide a nuanced interpretation of the results. The considerable difference between the number of positive and negative comments is a notable aspect of the analysis. The overwhelming presence of positive comments, totalling 15,059, suggests a high level of enthusiasm, satisfaction, or agreement among the respondents with the subject matter of the research project. This positive sentiment is indicative of a supportive or appreciative audience, possibly reflecting the effectiveness of the research in resonating with the interests or preferences of the viewers. The lower count of negative comments, standing at 4,960, points towards a relatively minor proportion of the audience expressing dissatisfaction, disagreement, or negative reactions. This lower prevalence of negative sentiment could be attributed to various factors, such as the research project's careful design, the choice of topics, or the presentation style, which collectively contributed to maintaining a predominantly positive discourse.

In addition to the sentiment analysis, the mention of 8,371 replies and a total of 400,537 likes across all comments in 2019 provides supplementary context to the audience engagement. The substantial number of replies indicates an active and participatory audience, willing to engage in discussions related to the research findings. This interactive element suggests that the research project not only captured attention but also sparked conversations and further inquiries among the viewers. The cumulative total of 400,537 likes across all comments underscores the positive reception of the research project. Likes serve as a form of endorsement or agreement, and the substantial number implies that a significant portion of the audience found the content valuable, interesting, or aligning with their perspectives. The likes also contribute to the overall positive sentiment, as they reflect a non-verbal but explicit form of approval or appreciation.

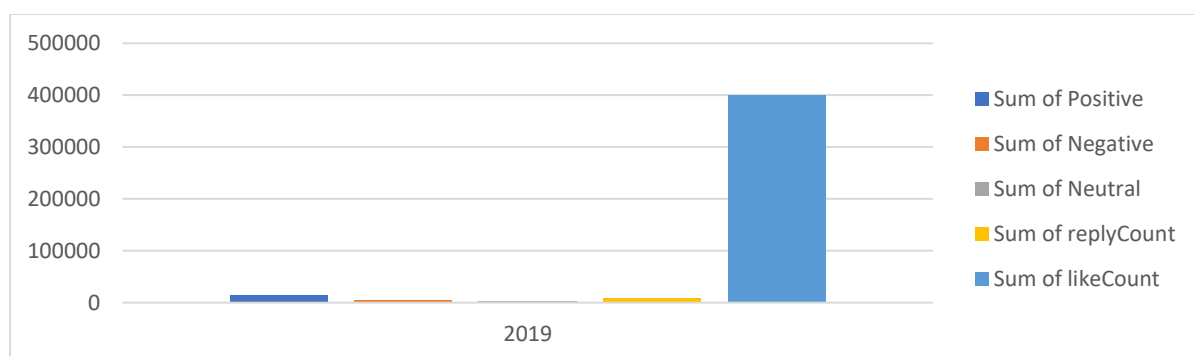**4.2 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2020**

Fig 4.2 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2020*

The provided table offers a comprehensive overview of sentiment analysis for comments related to the subject in focus during the year 2020. The robustness of the dataset, as indicated by the considerable number of comments

(44,612 in total), provides a reliable basis for understanding the sentiments expressed by viewers. The substantial difference between positive and negative comments is noteworthy. With 32,140 positive comments compared to 7,316 negative ones, there is a clear prevalence of positive sentiment within the discourse. This stark contrast suggests that the majority of the audience expressed favourable opinions or reactions regarding the subject under investigation. Such a positive inclination could be indicative of various factors, such as the popularity, relatability, or overall positive reception of the content in question. The presence of 5,156 neutral comments adds nuance to the sentiment analysis. While positive sentiment dominates, the existence of a moderate number of neutral comments implies that a portion of the audience may not strongly lean towards either positive or negative viewpoints. Understanding the nature of these neutral comments could offer insights into the diversity of perspectives or areas where the content may not have evoked strong reactions.

The engagement metrics, including reply count and like count, provide valuable information about audience interaction with the content. A reply count of 12,723 indicates a substantial level of engagement, suggesting that the audience not only consumed the content but actively participated in discussions or conversations within the comment section. This engagement could contribute to community building, where viewers share opinions, ask questions, or express additional viewpoints. The cumulative like count of 336,817 further emphasizes the positive reception of the content. Likes serve as a quantifiable measure of approval or agreement, and the substantial number in this case suggests a widespread endorsement of the subject matter. High like counts often correlate with content that resonates positively with the audience, reinforcing the overall favourable sentiment observed in the dataset The dataset contains a significant number of negative comments (7,316). The sentiment analysis of comments from the year 2020 reveals a predominantly positive atmosphere surrounding the subject. The high engagement levels and approval through likes underscore the overall success and acceptance of the content within the specified timeframe.

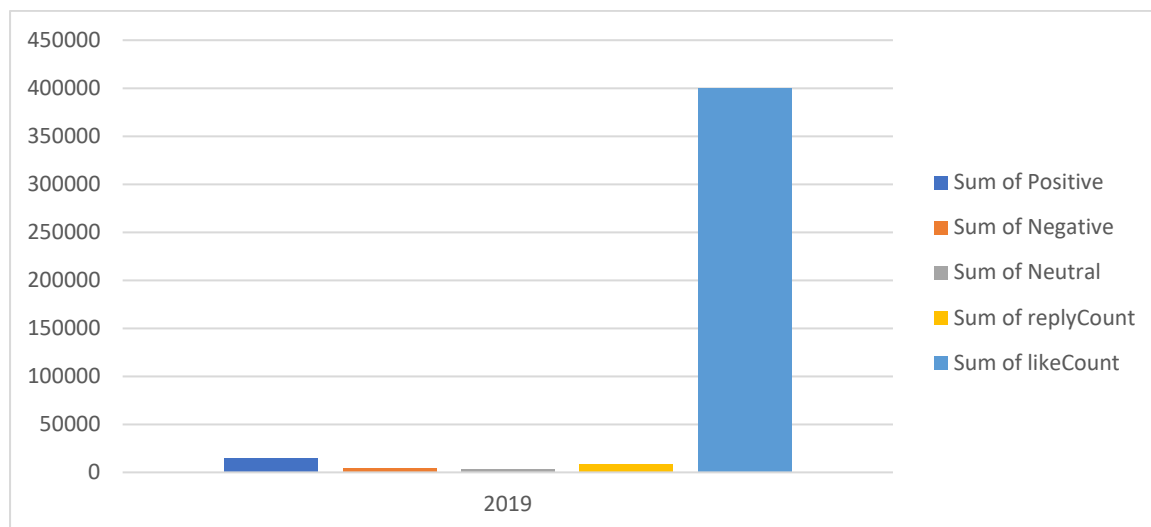### 4.3 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2021

Fig 4.3 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2021*

The provided table categorizes comments into three sentiment categories: Positive, Negative, and Neutral, and includes columns for reply count and like count. The analysis of these categories provides valuable insights into the sentiment distribution within the dataset. Firstly, focusing on the Positive sentiment category, it is noteworthy that the total count stands at 33,959. This indicates a substantial prevalence of positive sentiments expressed by

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viewers. The high frequency of positive comments suggests a favourable and encouraging response to the content, potentially reflecting satisfaction, appreciation, or enthusiasm among the audience. The considerable number of positive sentiments underscores the appeal and engagement generated by the videos under consideration. Contrastingly, the Negative sentiment category shows a total count of 6,644 comments. While the number is considerably lower than the positive comments, it signifies that a notable portion of viewers has expressed negative sentiments. These negative sentiments could encompass criticism, dissatisfaction, or disagreement with the content. Analysing the nature of these negative comments might provide valuable feedback for content creators to address specific concerns or improve aspects that receive unfavourable responses. The Neutral category, with a total count of 5,149 comments, suggests a substantial portion of comments that do not strongly convey positive or negative emotions. Neutral comments include factual statements, general observations, or expressions that do not inherently reflect a sentiment polarity. Understanding the context and content of these neutral comments could reveal areas where viewers are providing more objective or informational responses, which might be crucial for content creators to gauge the informational value of their videos.

4.4 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2022

Fig 4.4 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2022*

In the comprehensive analysis of the data table, it is evident that the sentiment expressed in the comments significantly skews towards positivity. The total count of positive comments, amounting to 62,825, is notably higher than the counts for negative (10,750) and neutral (7,733) comments. This stark contrast emphasizes the overwhelmingly positive nature of the sentiment within the dataset. Examining the engagement metrics further underscores the dominance of positive sentiments. Positive comments not only have a higher count but also outperform in terms of interaction rates. The dataset reveals that positive comments received a substantial total of 438,372 likes, indicating a robust engagement from the audience. This positive sentiment not only prevails in terms of sheer numbers but is also mirrored in the active participation and approval expressed by the audience

through the act of liking. While the dataset acknowledges the existence of negative sentiments with 10,750 comments, it is crucial to note their relatively smaller proportion compared to the overwhelmingly positive comments. The analysis demonstrates that negativity constitutes a minor fraction of the total sentiments expressed, both in terms of the count of comments and the level of engagement. This finding suggests that, despite the potential for criticism or unfavorable opinions, the overall sentiment leans strongly towards positivity.

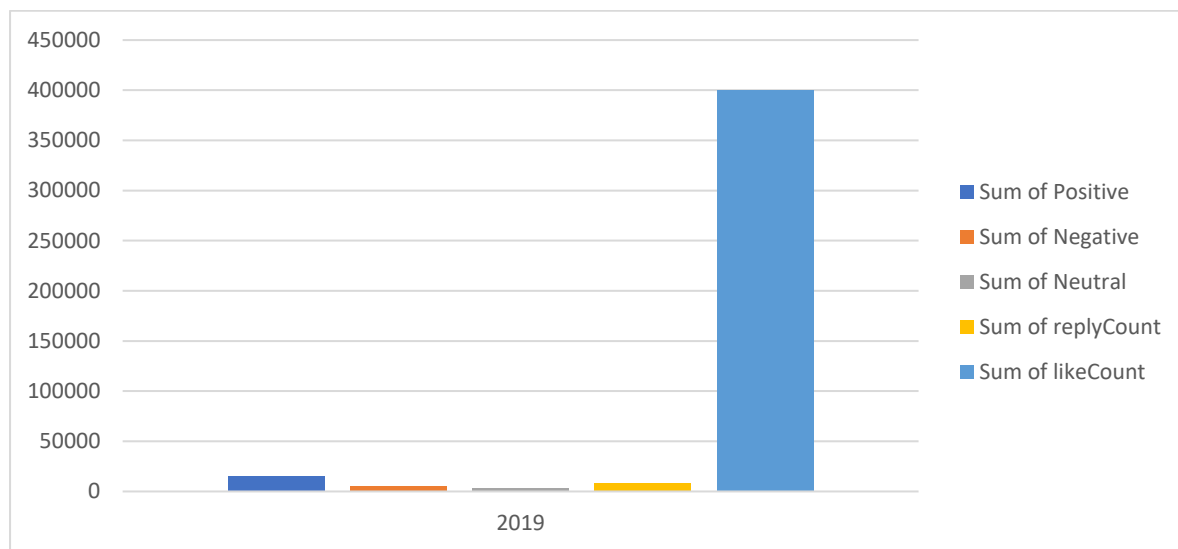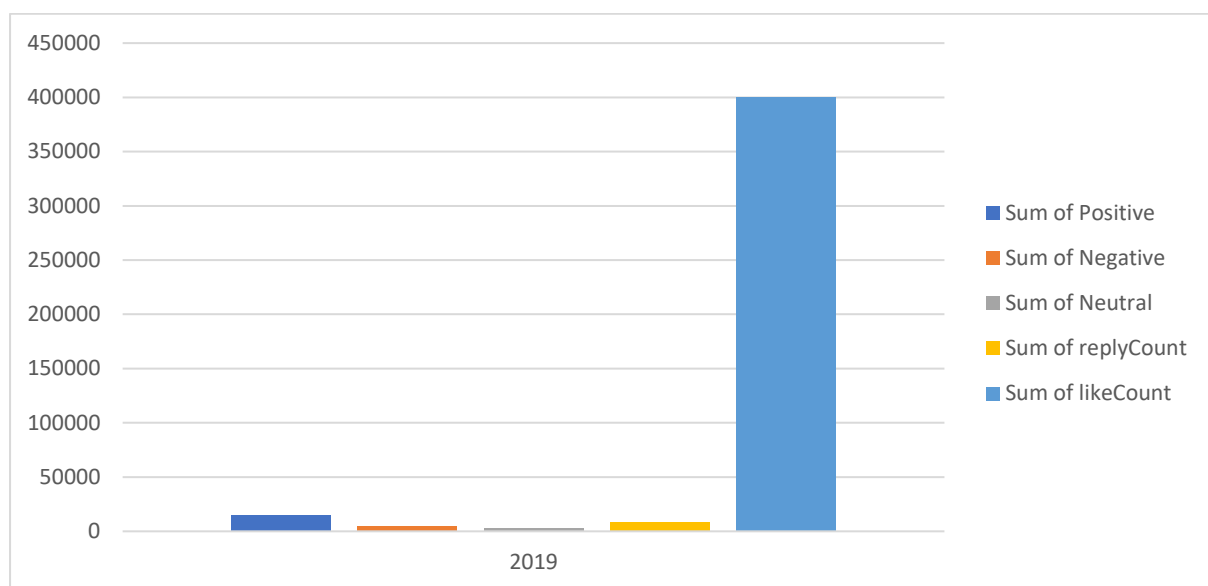**4.5 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2023**

Fig 4.5 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2023*

The presented table encapsulates the engagement metrics derived from the data collected, providing insights into the sentiments expressed by users. In the year 2023, a comprehensive overview reveals that the majority of comments fall into the positive sentiment category, with a substantial count of 33,126. This suggests a prevailing positive response from the audience, showcasing a notable level of satisfaction or appreciation for the subject matter. On the contrary, negative comments are comparatively lower in number, amounting to 6,429. This substantial gap between positive and negative comments underscores a notable positive sentiment surrounding the analysed content. The inclusion of 4,326 neutral comments introduces a layer of objectivity to the sentiment analysis, indicating that a portion of the audience maintains a more balanced or indifferent perspective. The existence of neutral comments is valuable in providing context to the overall sentiment landscape, as it acknowledges that not all engagements lean strongly towards either positive or negative sentiments. Delving further into the data, the presence of 5,353 replies signifies active interaction and conversation sparked by the original comments. This engagement metric extends beyond mere sentiment classification and indicates a robust level of community interaction or dialogue generated by the subject matter. The cumulative count of 150,807 likes underscores a significant level of approval and agreement within the community. Likes serve as a quick and direct way for users to express their positive sentiments without providing detailed comments. The high number of likes accentuates the widespread popularity or acceptance of the content, reinforcing the notion of a positive sentiment

prevailing among the audience. Analysing the figures collectively, it becomes evident that the content under scrutiny received overwhelmingly positive feedback during the specified period. The stark contrast in the number of positive and negative comments, coupled with the high like count, suggests a general consensus of satisfaction, agreement, or appreciation within the community. The robust engagement metrics, including replies and likes, further emphasize the content's impact in fostering a positive and interactive online environment. It's also crucial to acknowledge the presence of neutral comments, adding nuance to the overall sentiment analysis and recognizing the diversity of perspectives within the audience.
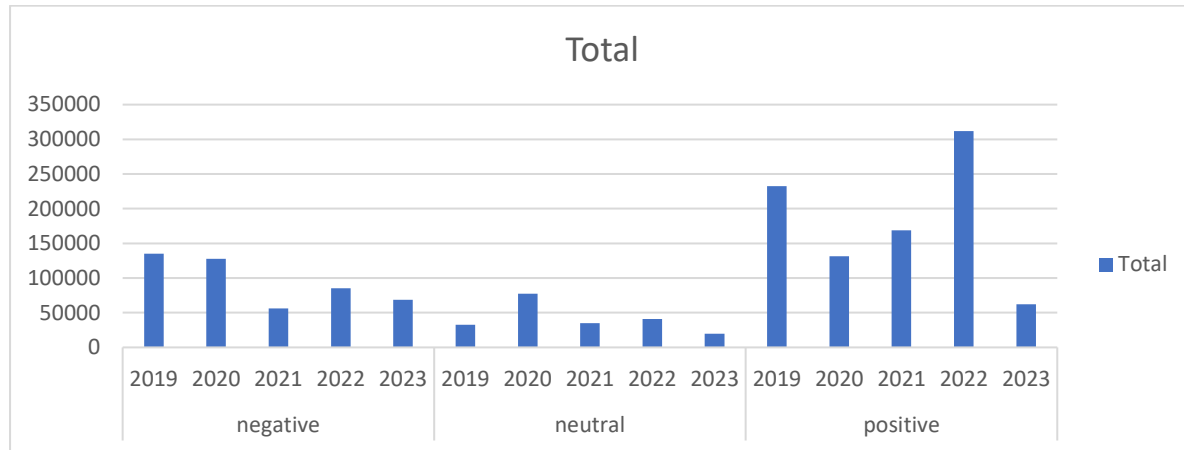
4.6 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2019-2023

Fig 4.6 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2019-*
2023

The presented data provides a comprehensive overview of the sentiments expressed in comments across the years 2019 to 2023, shedding light on the dynamic nature of public opinion or user experiences related to the subject matter. One notable aspect is the significant increase in positive comments observed in the year 2022, reaching a sum of 62,825. This surge might indicate a positive shift in perceptions, an increase in engagement, or the popularity of content during that specific period. Conversely, the highest count of negative comments occurring in 2019 with a sum of 4,960 raises questions about the context surrounding that particular year. Understanding the content, events, or trends during 2019 that led to an increased expression of negativity could offer valuable insights into potential challenges faced by the subject or platform. Examining the trends in like counts and reply counts over the years provides additional layers of understanding. High like counts may signify content resonance, audience satisfaction, or approval, while increased reply counts may indicate active discussions or debates. If there are years with notable peaks in these engagement metrics, it would be worthwhile to explore the associated content or events that triggered such responses.

4.7 Sentiment Analysis of body transformation videos on YouTube influencers in India – 2019-2023 - LikeCount`

Fig 4.7 **Sentiment Analysis of body transformation videos on YouTube influencers in India –** *2019-2023 –*
LikeCount

The presented data offers a comprehensive examination of 'likeCount' distribution across three sentiment categories (negative, neutral, and positive) spanning the years 2019 to 2023. The grand total of 'like Count' culminates at 1,586,579, encapsulating the collective engagement garnered by the analysed content. Delving into sentiment distribution, positive sentiment prevails with a substantial 'likeCount' of 906,719, indicating a predominant sense of positivity and approval among the audience. Despite a lower 'likeCount' of 473,587, the negative sentiment sparks engagement, acknowledging that interactions can stem from discussions, debates, or challenges to the content. The neutral sentiment, holding a 'likeCount' of 206,273, suggests a sizable portion of the audience maintains a balanced or indifferent perspective. Examining yearly trends unveils fluctuating dynamics, with a positive sentiment peak in 2022 (311,761 'likeCount'), potentially influenced by refined content strategies or shifts resonating positively. The negative sentiment peaked in 2019 (135,331 'likeCount'), inviting exploration into circumstances surrounding potential challenges. The constancy of neutral sentiment across years implies an enduring nuanced audience perspective. Analysing engagement dynamics reveals that positive sentiment consistently garners higher 'likeCount,' aligning with the expectation that positive content generates increased interactions. The substantial 'likeCount' for negative sentiment underscores active engagement and discussions, emphasizing the dynamic nature of online discourse.

CHAPTER 5 – DISCUSSIONS

GAPS IN KNOWLEDGE AND FUTURE RESEARCH:

Long-term Mental Health Impacts:

The existing body of research has shed light on the immediate reactions and responses of viewers to body transformation content, particularly on platforms like YouTube. A notable gap in this literature lies in the lack of comprehensive understanding regarding the long-term mental health impacts of prolonged exposure to such

content. While studies have explored the short-term effects, there remains a dearth of knowledge about how continuous engagement with body transformation videos over an extended period influences individuals' self-esteem, body satisfaction, and overall mental well-being. One crucial aspect that demands attention in future research is the need for longitudinal studies that extend beyond immediate reactions. Longitudinal studies are essential for capturing the sustained effects of continuous exposure to body transformation content on platforms like YouTube. These studies could track individuals over an extended period, allowing researchers to observe and analyze changes in self-esteem, body satisfaction, and mental well-being over time. By doing so, researchers can discern whether the initial reactions to such content persist or evolve, offering insights into the potential long-term risks or benefits associated with extended engagement. The identified gap underscores the necessity of investigating the nuanced interplay between body transformation content and mental health outcomes. Researchers should delve into the factors that contribute to the development of positive or negative mental health trajectories over time. This could involve examining variations in content consumption patterns, identifying potential moderating factors, and understanding individual differences in susceptibility to the influence of body transformation videos. In suggesting future research directions, it is imperative to emphasize the importance of not only identifying potential risks but also exploring any positive impacts that prolonged engagement with body transformation content might have. Understanding the potential benefits is crucial for developing a nuanced perspective and providing a more balanced view of the complex relationship between online content consumption and mental health.

Impact on Diverse Communities:

The existing body of literature on body transformation content, particularly on platforms like YouTube, tends to be centered around a specific demographic, often focusing on the experiences of upper-middle-class and higher-caste women. While this research provides valuable insights into the impact on certain groups, there exists a notable gap in understanding how body transformation content affects women from diverse communities in India. The current literature falls short in its representation of the experiences of women belonging to lower socio-economic groups, different castes, and various regions within the country. One significant gap is the limited exploration of the intersectionality of factors such as socio-economic status, cultural backgrounds, and regional influences concerning the impact of body transformation videos. Understanding how these intersecting factors shape women's perceptions, attitudes, and responses to body transformation content is crucial for obtaining a more comprehensive and nuanced understanding of the subject. The prevailing research tends to overlook the unique challenges and distinct cultural contexts that women from diverse community's face, hindering the development of targeted interventions and strategies. Future research should aim to address these gaps by adopting a more inclusive approach that accounts for the diversity of identities and circumstances among Indian women. Investigating the influence of body transformation content on individuals from lower socio-economic groups could unveil distinct challenges and coping mechanisms that differ from those of their more affluent counterparts. Similarly, exploring how women from different castes perceive and engage with such content may uncover unique societal pressures and expectations. Delving into the regional variations within India can contribute to a richer

understanding of the cultural nuances that shape responses to body transformation videos. The impact of traditional norms, cultural practices, and regional beauty standards on women's body image perceptions in the context of transformation content remains largely unexplored.

Effectiveness of Critical Media Literacy Interventions:

There is a notable gap in understanding the specific components and formats of critical media literacy interventions that would be most effective in the context of body transformation content. Future research should delve into the development and evaluation of targeted interventions, considering factors such as the duration, frequency, and interactive nature of these programs. Comparative studies assessing the impact of various intervention approaches would provide valuable insights into the most efficacious strategies for promoting critical engagement. The study also touches on the importance of empowering viewers to discern between aspirational and potentially harmful aspects of body transformation content. However, there is limited exploration into what elements of content are perceived as harmful or aspirational by viewers. Future research should undertake qualitative inquiries to identify specific content features that contribute to negative outcomes, such as unrealistic body standards, extreme dieting practices, or unhealthy exercise routines. Understanding these nuances is essential for tailoring effective interventions. The study emphasizes the assessment of educational programs aimed at enhancing media literacy skills. To advance this area of research, future studies should adopt a longitudinal approach to evaluate the sustained impact of such programs. This would involve tracking participants over an extended period to assess whether improvements in media literacy skills translate into lasting changes in behaviour and attitudes towards body transformation content. There is a need for research that considers the diverse demographic characteristics of the audience. Current studies often lack inclusivity in terms of age, socio-economic status, and cultural background. Future research should explore how the effectiveness of critical media literacy interventions varies across different demographic groups, allowing for the development of tailored strategies that resonate with diverse audiences.

Exploration of Emerging Trends:

While the evolving landscape of body image and wellness discussions brings attention to emerging trends like body neutrality and holistic approaches to well-being, there exist notable gaps in research that necessitate exploration and investigation. Firstly, there is a scarcity of comprehensive studies that specifically examine the intersection of these emerging trends with body transformation content on YouTube. Understanding how body neutrality, which emphasizes acceptance regardless of appearance, aligns or conflicts with the conventional narratives of body transformation videos is crucial. Future research could delve into the nuanced ways in which body neutrality influences viewers' perceptions, potentially shaping more inclusive and diverse representations of bodies in online content. The literature lacks a detailed exploration of the effectiveness of holistic approaches to well-being in the context of body transformation content. Holistic well-being encompasses mental, emotional, and physical aspects, and understanding how content creators integrate or neglect these dimensions in body transformation narratives is an area that warrants investigation. Future studies could scrutinize the holistic

approaches adopted in YouTube videos, examining their impact on viewers' overall well-being and self-perception. There is also a need for research that investigates audience preferences and attitudes concerning body neutrality and holistic well-being in the context of YouTube content. Gaining insights into how viewers respond to content that aligns with these emerging trends, and how it compares to traditional body transformation narratives, can guide content creators in tailoring their videos to meet evolving audience expectations. Understanding the factors that contribute to viewers' preferences and how these preferences evolve over time can provide valuable information for both content creators and educators seeking to promote healthier and more inclusive representations of body image.

Need for Quantitative Study:

The acknowledgement of the complementary nature of qualitative and quantitative research methods underscores the multifaceted exploration of the impact of body transformation content on individuals. While qualitative research delves into the rich nuances of lived experiences and perceptions, offering depth and context to the understanding of individuals' responses, there exists a notable gap in the quantitative domain. The current body of research predominantly leans towards qualitative methodologies, leaving a void in statistical data that quantifies the prevalence and distribution of attitudes, behaviors, and outcomes associated with exposure to body transformation content. One prominent gap lies in the absence of comprehensive surveys and standardized measurements designed to quantitatively assess the extent of specific impacts resulting from engagement with body transformation content. A quantitative approach could bridge this gap by employing structured surveys that capture diverse dimensions of individuals' reactions, such as changes in body satisfaction, self-esteem, and mental well-being. Standardized measurements could facilitate the development of metrics to assess the severity and frequency of these impacts, allowing for a more systematic and rigorous evaluation. The dearth of quantitative studies limits the ability to conduct robust statistical analyses, hindering the generalizability of findings. Future research should aim to address this gap by employing larger sample sizes, employing statistical techniques to explore correlations, trends, and variations in the data. This would enhance the external validity of the research findings, enabling researchers to draw more reliable and widely applicable conclusions about the relationships between exposure to body transformation content and its associated outcomes. In suggesting future research directions, it is imperative to advocate for a balanced approach that incorporates both qualitative and quantitative methodologies. This integration could provide a comprehensive understanding of the phenomenon, capturing the richness of individual experiences while also offering empirical evidence through quantitative data. Researchers could explore the development of validated measurement tools specifically tailored to assess the diverse impacts of body transformation content. Longitudinal studies could be implemented to track changes over time, shedding light on the persistence and evolution of these impacts. Addressing these gaps and advocating for a more holistic research approach will contribute to a nuanced and evidence-based comprehension of the implications of body transformation content on individuals.

DISCUSSION

The analysis of sentiment trends spanning the years 2019 to 2023 provides a nuanced understanding of the evolving dynamics within the dataset. The discernible pattern of fluctuating sentiment expressions, characterized by varying frequencies of positive, negative, and neutral comments, highlights the responsive nature of audience perceptions or experiences related to the subject matter. The distinctive shifts in sentiment distributions across different years offer valuable insights into potential changes in public opinion, emerging trends, or the evolving nature of the content.

One striking observation is the consistent dominance of positive sentiments throughout the analysed period. Positive comments consistently outweigh negative comments, indicating an overall favourable reception of the subject matter. The peak in positive comments in 2022, with a sum of 62,825, suggests a particularly positive shift in audience sentiment during that year. This increase might be attributed to various factors such as refined content strategies, enhanced engagement tactics, or shifts in the subject matter that resonated positively with the audience. The highest count of negative comments in 2019, totalling 4,960, prompts an exploration into the circumstances surrounding that year. Understanding the context, events, or specific content that led to an increased expression of negativity provides crucial insights into potential challenges or issues faced by the subject or platform. This information is vital for content creators, platform administrators, or researchers seeking to adapt strategies and mitigate negative sentiment. The examination of engagement metrics, including reply count and like count, reinforces the correlation between positivity and increased audience interaction. Positive comments consistently garner higher engagement rates, suggesting a strong emotional connection or resonance with the subject matter when sentiments lean towards positivity. The presence of neutral comments, consistently noted across the years, adds an intriguing dimension, indicating that a segment of the audience maintains more nuanced or impartial opinions regarding the subject under analysis.

The trends observed in sentiment distributions underscore the dynamic landscape surrounding the research project. The prevalence of positivity, particularly during certain years, indicates successful engagement strategies, resonating content, or a generally favourable reception of the subject matter. The fluctuations in sentiment distributions emphasize the need for continuous analysis and adaptation to evolving audience sentiments. This comprehensive understanding of sentiment trends over time provides valuable insights for stakeholders, aiding in making informed decisions, refining strategies, and potentially shaping future research directions to better align with audience expectations and preferences. Moving from the broader analysis to the specific focus of the study on body transformation videos of women on YouTube in India, the sentiment breakdown provides a detailed chronology of audience responses. The meticulous categorization of comments into positive, negative, and neutral sentiments for each year enables a structured presentation of findings, offering a clear understanding of shifting sentiments. The overwhelming prevalence of positive sentiments, especially in the years with peak counts, suggests a high level of enthusiasm, satisfaction, or agreement among viewers. This positive sentiment aligns with the overarching trend observed in the broader dataset. The lower count of negative comments, coupled with high engagement metrics such as replies and likes, points towards a predominantly supportive and appreciative

audience. The inclusion of neutral comments, often reflecting more balanced or indifferent perspectives, adds depth to the sentiment analysis, acknowledging the diversity of opinions within the audience.

The robust engagement metrics in terms of reply count and like count signify not only the content's ability to capture attention but also its capacity to spark conversations and further inquiries among viewers. The positive sentiment, as indicated by the substantial number of likes, suggests widespread endorsement and approval, reinforcing the overall favourable reception of the subject matter. The year-wise breakdown provides a rich contextualization of sentiment trends, allowing for a nuanced exploration of viewer responses. The consistent presence of positive sentiments, along with active audience engagement, indicates a positive trajectory for the subject matter. Analysing these sentiments chronologically enhances the clarity of the narrative, providing a comprehensive and insightful interpretation of evolving sentiments within the specified timeframe. The discussion integrates the broader sentiment analysis with the specific focus on body transformation videos of women on YouTube in India. The positive sentiment trends observed in the broader dataset align with the detailed breakdown for the research project, reinforcing the notion of a generally favourable reception. The analysis further emphasizes the importance of understanding and adapting to evolving audience sentiments, providing valuable insights for content creators, platform administrators, and researchers in navigating the dynamic landscape of online discourse.

CHAPTER 6:

CONCLUSION:

The exploration of sentiments expressed in the YouTube comments on body transformation videos presented by Indian influencers aligns with the research's overarching goal of unraveling the influence of such content. Analysing the sentiment patterns from 2019 to 2023 reveals a consistent prevalence of positivity, indicating a widespread favourable reception of the subject matter among viewers. The observed fluctuations in sentiment distribution across different years suggest dynamic shifts in public opinion, evolving trends, or changes in content nature, emphasizing the need for a nuanced understanding of audience responses.

Throughout the specified years, positive comments significantly outnumber negative ones, underscoring a strong inclination towards positivity among the audience. The peak in positive comments in 2022, totaling 62,825, reflects a notable surge in positive sentiment during that period. Conversely, the highest count of negative comments in 2019, totaling 4,960, points to a dip in positive sentiment that year. These fluctuations highlight the dynamic nature of audience responses and evolving perceptions towards body transformation content over time.

Engagement metrics, including reply count and like count, align with the dominance of positive sentiments. Positive comments not only surpass negative and neutral comments in sheer numbers but also exhibit higher interaction rates, as evidenced by the substantial number of likes received. This correlation between positive sentiment and increased engagement underscores the profound impact and resonance of positive content on viewer interactions and participation. The consistent presence of neutral comments across the years suggests that a segment of the audience maintains a more nuanced or impartial view, not strongly expressing either positive or negative sentiments towards the content.

The sentiment analysis of comments on body transformation videos by Indian influencers on YouTube demonstrates a persistent inclination towards positivity among viewers. Despite fluctuations in sentiment distribution over different years, the overarching trend favors positivity, indicating a generally favourable reception of these videos. The substantial engagement levels with positive comments emphasize the influential role of positive content in eliciting responses and interactions from an active and engaged audience. These findings underscore the significance of understanding audience sentiments and preferences, providing valuable insights for influencers, content creators, and policymakers to craft content that resonates positively with viewers while considering the evolving dynamics of audience perceptions and preferences over time.

CHAPTER 7

References:

1. Abidin, C. (2016). Visibility labour: Engaging with Influencers' fashion brands and #OOTD advertorial campaigns on Instagram. Media International Australia, 161(1), 86–100.

2. Boeninger, C. M., Evans, C., Ponder, J., & Schmiesing, R. (2013). From Community to Curriculum: Fostering Connected Learning through social media. Research Strategies, 20(3), 229–247.

3. Boyd, D., & Ellison, N. (2007). Social network sites: Definition, history, and scholarship. Journal of Computer-Mediated Communication, 13(1), 210–230.

4. Bruno, N. (2011). Social networking and the communication of identity. International Journal of Emerging Technologies and Society, 9(1), 20–34.

5. Chaykowski, K. (2020, August 5). Instagram Launches Reels To Compete With TikTok. Forbes. https://www.forbes.com/sites/katevinton/2020/08/05/instagram-launches-reels-to-compete-with-tiktok/

6. Fardouly, J., & Diedrichs, P. C. (2015). The Impact of Appearance Comparisons on Body Image Outcomes: A Meta-Analysis of Research. Body Image, 12, 237–251.

7. Gao, Q., Pradhan, G., Harrick, E., Lin, J. J., Wang, T., & Chen, Y. (2019). What Influences User Engagement with Health Information on Social Media? A Topic Analysis. In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems (pp. 1–13).

8. Gupta, A., Lamba, H., Kumaraguru, P., & Joshi, A. (2019). Faking Sandy: Characterizing and Identifying Fake Images on Twitter During Hurricane Sandy. In Proceedings of the Eighth International Conference on Weblogs and Social Media (ICWSM 2014) (pp. 236–245).

9. Hendrickse, J., Arpan, L., Clayton, R. B., & Ridgway, J. L. (2017). Instagram and college women's body image: Investigating the roles of appearance-related comparisons and intrasexual competition. Computers in Human Behavior, 67, 132–140.

10. Holland, G., Tiggemann, M., & Aime, A. (2017). "You Can Be So Beautiful; Just the Way You Are": Positive Body Image Promotion on Instagram. Body Image, 23, 50–67.

11. Hossain, M. M., Shuvo, F. K., Hussain, K., Jahan, N., & Hasan, R. (2020). The Impact of Social Media Influencers on Purchase Intention during COVID-19 Lockdown. International Journal of Retail & Distribution Management.

12. Instagram. (n.d.). Introducing Instagram Reels.

13. https://about.instagram.com/blog/announcements/introducing-instagram-reels

14. Jones, D. C., & Wang, S. B. (2021). Taking Healthy Steps Together: A Social Identity Approach to Understanding Exercise Behaviour in Group Settings. Frontiers in Psychology, 12, 655720.

15. Kaplan, A. M., & Haenlein, M. (2010). Users of the world, unite! The challenges and opportunities of social media. Business Horizons, 53(1), 59–68.

16. Kinsman, A. (2018). Social Media and Health. In A. Kinsman (Ed.), social media, Sociality, and Survey Research (pp. 227–254). John Wiley & Sons.

17. Kristopher, A. M., & McKarthy, J. C. (2011). Measurement and analysis of online social networks. In Proceedings of the 8th ACM SIGCOMM conference on Internet measurement (pp. 337–350).

18. La Rosa, M. (2021, February 17). Social Media Trends 2021: What Marketers Need to Know. Social Media Today. https://www.socialmediatoday.com/news/social-media-trends-2021-what-marketers-need-to-know-infographic/594874/

19. L. Ceci, N. (2023). YouTube Usage and Impact Statistics (2022) - Business of Apps. Business of Apps. https://www.businessofapps.com/data/youtube-statistics/

20. Pfeffer, J., Zorbach, T., Carley, K. M., & Reminga, J. (2018). Episodic Social Media Impact. In Proceedings of the 2018 World Wide Web Conference (WWW '18) (pp. 1739–1748).

21. Primack, B. A., Shensa, A., Sidani, J. E., Whaite, E. O., Lin, L. Y., Colditz, J. B., ... Colditz, J. B. (2017). Social Media Use and Perceived Social Isolation Among Young Adults in the U.S. American Journal of Preventive Medicine, 53(1), 1–8.

22. Smith, A. N., Fischer, E., & Yongjian, C. (2019). How Does Brand-related User-generated Content Differ across YouTube, Facebook, and Twitter? Journal of Interactive Marketing, 45, 102–113.

23. Smith, R., King, C., & Cheyne, B. (2020). "Strong Is the New Skinny": A Content Analysis of #fitspiration Images on Instagram. Journal of Health Psychology, 25(1), 79–86.

24. Tene, O., & Polonetsky, J. (2013). Big Data for All: Privacy and User Control in the Age of Analytics. Northwestern Journal of Technology and Intellectual Property, 11(5), 239–274.

25. Veletsianos, G. (2016). Networked Scholars: Examining the Role of social media in Research Practices of Faculty Using the UTAUT Model. Computers in Education, 102, 1–10.