

THE RISE OF VIRTUAL INFLUENCERS: ASSESSING CONSUMER TRUST AND BRAND ENGAGEMENT IN THE AGE OF AI MARKETING

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Abstract

Many recent developments in the field of marketing have introduced virtual influencers as a new digital brand communication channel due to the high rate of artificial intelligence adoption into the sphere of marketing. The paper will discuss how virtual influencers affect consumer trust and brand engagement as an element of AI-based marketing. With the help of a quantitative research method, the information was gathered among active users of social media platforms to examine the attitudes of credibility, transparency, and reliability of virtual influencers and the impact these factors have on consumer interest in brands. The results suggest that virtual influencers can help them achieve significant rates of consumer trust, which is achieved primarily due to consistency and transparency and not human authenticity. Findings also reveal that virtual influencers are an effective way of drawing consumer engagement and promoting interactive action on branded content. A positive correlation was found between consumer trust and brand contact, which emphasizes the fact that trust is a significant predictor of the success of virtual influencer marketing. The research will add to the existing literature on AI marketing, as it will allow investigating how artificial influencers remake the

consumer brand relationship. The results provide a useful path to marketers to utilize virtual influencers in a responsible way and be trusted and engaged in more and more digital marketing world.

Keywords: Virtual Influencers, Artificial Intelligence Marketing, Consumer Trust, Brand Engagement, Digital Influencer Marketing

Introduction

The high rate of development of artificial intelligence has essentially changed the modern marketing environment and altered the pattern of brand communication, interaction and relationship building with the consumers. Among the most disruptive changes in AI-based marketing, it is possible to mention the development of virtual influencers as computer-generated figures that look like human personalities and act in digital environments. The virtual influencers have no physical presence or their own limitations as well as some unfortunate human factors as opposed to the traditional influencers. They are strategically designed, algorithmically controlled and constantly optimized to fit brand identities, preferences of the audience and the market trends. The technological development is an important change in digital branding that has impacted critical issues on authenticity, trust, and engagement in an age where artificial intelligence is mediating.

Virtual influencers have been rapidly popularized in social media networks, including Instagram, Tik Tok, YouTube, and other upcoming virtual worlds. These artificial intelligence-created personas can have well-crafted aesthetics, have coherent messages, and have emotionally captivating stories that outmatch or even exceed that of human influencers. (Holá, K. 2025). Virtual influencers have been adopted by brands in the fashion industry, beauty industry, technology industry, and entertainment industry, as cost-effective, controllable and scalable marketing tools. Their capability of working twenty-four hours, scandals, and provide flawless brand messages have made them interesting substitutes of human endorsers. Nevertheless,

their emergence also creates intricate psychological and ethical processes that impact the consumer perceptions and behavior.

Consumer trust has been identified as one of the pillars of good marketing communication, long enough. Holloway, S. 2024). Historically, perceived authenticity, relatability, and lived experience are the pillars of trust in influencers. Human influencers use personal testimonies, feelings, and socialization to develop the parasocial relationships with their followers. The virtual influencers, though, go against this premise by confusing the real with the artificial. They do not have real human experiences whereas they are able to imitate emotional expressions and social interaction. This begs a key question; can consumers really trust a digital being that is consciously artificial and, moreover, what aspect(s) of trust are getting redefined in AI-driven marketing spaces?

Meanwhile, brand engagement has grown more multidimensional to include more than exposure or recall to involve emotional engagement, interactive engagement, and brand attachment that is long-term. Their ability to react to audience feedback, creating interactive content, and personalization with the help of AI algorithms is what places virtual influencers in a unique position to drive the continuous engagement with brands through multiple digital touchpoints. The possibility of virtual influencers to maintain attention across increased fragmentation of consumer attention has both opportunities and strategic challenges to marketers in the age of AI marketing. The contemporary consumer is more technologically conscious and more sensitive to the impact of artificial intelligence on their online experiences. Although virtual influencers are considered creative and entertaining innovations by some consumers, others might think that the latter is deceptive or manipulative when the artificial character of the latter is not explicitly revealed. This tension demonstrates the relevance of knowing the impacts of consumer awareness of AI on trust creation and the outcome of engagement. Virtual influencers emerge not just due to the level of technology

but also perceptions and interpretations of their presence by consumers and their cognitive and emotional responses.

Moreover, the cultural, social, and generational differences are important factors that affect the reaction to virtual influencers. Younger viewers, especially the digital natives, are more pliant to artificial intelligence-mediated communications and virtual personas. (Lanneskog, L. 2023). They tend to appreciate creativity, novelty as well as technological assimilation more than conventional ideas of authenticity. Conversely, the elderly consumer groups might value human touch and authenticity and be suspicious of AI-based influencers. These contrasting views indicate that brands using virtual influencers should strike a fine balance between being innovative or credible to the consumer levels of trust and brand engagement among different audiences. Strategically, brands that use virtual influencers should navigate careful between being innovative or credible. Although AI allows a person to gain unprecedented control over the behavior of influencers and the alignment of brands, overly artificial can erode emotional appeal. The perception of integrity and moral goodwill is not a source of trust but a part of perfection as well. The closer virtual influencers look and interact like a person, the more important the ethical aspects of identity, disclosure and manipulation of the consumer. These issues require further scholarly and managerial analysis of trust building and sustenance in AI-mediated brand communication.

The research paper aims to evaluate the emergence of virtual influencers as the phenomenon in the wider framework of AI marketing, particularly, consumer trust and brand consideration. The study will help to advance the current research on the transformation of digital marketing by studying the perceptions, interactions, and reactions of consumers to virtual influencers. (Gerlich, M. 2023). These dynamics are critical to brands that aim to use AI responsibly and still have a meaningful relationship with the consumer. In such a time when artificial intelligence is mediating human

interaction, human and machine influence are becoming more pronounced, but less visible. Virtual influencers are not only a technological innovation but also a paradigm shift in the process of building influence, trust, and interaction in the digital domain. Their discussion is worthwhile as it gives useful information about the future of marketing communication, consumer psychology, and brand strategy under the new era of artificial intelligence.

Literature Review

Conceptual Evolution of Virtual Influencers in AI Marketing

The virtual influencer is an idea that has been born as a result of the convergence of artificial intelligence, computer-generated art, and marketing through social media. Early types of digital characters served an entertainment and gaming purpose but the improvement of AI-based image synthesis, machine learning and natural language processing have facilitated the development of very realistic and interactive virtual characters (Kim et.al,2023). These organizations are now being used as strategic assets as marketing agents who have the ability to represent brands, convey promotional messages, and converse with followers in the digital space. According to the literature, virtual influencers are not the exclusive technological artefacts but the well thought-out marketing instruments that manipulate the perceptions and habits of the consumers.

The difference between the traditional and virtual influencers is found in their origin, control, and scalability (Byun et.al,2023) As opposed to human influencers, who create their own identities, lived experiences, and social capital, virtual influencers are anticipated and crafted by brands or agencies. This enables ultimate control of appearance, tone, values, and behavior minimizing risks of human vagaries. Research on AI marketing shows that this degree of control ensures increased message consistency and brand safety, and virtual influencers are, therefore, especially appealing to companies with highly competitive or image-sensitive markets. The aspect of AI-driven simulation of human interactions, such as emotional expression, conversation,

and adaptive content creation, is highly attractive to companies that operate in a highly competitive market or in an image-sensitive environment. The abilities enable them to engage in the online storytelling process, respond to the feedback of the audience, and remain online constantly. Literature focuses on the fact that this level of interactivity enhances the feeling of immersion in the audience and an illusion of social presence which is an essential component in influencer effectiveness. Consequently, virtual influencers are becoming more of relational agents than of promotion tools.

The other critical theme of the current literature is that the aesthetics and narrative construction should shape the attractiveness of virtual influencers(Zhang et.al,2025) their visual perfection, stylized identities, and aspirational lifestyles tend to coincide with brand images and consumer fantasies. This is in contrast to human influencers, who are limited to physical restrictions, age, and social boundaries, thus enabling brands to create idealized versions of someone that will appeal to a particular target group. Among the benefits, this aesthetic adaptability also leads to increased popularity in other sectors like fashion, beauty, and technology. Although they have benefits, conceptual issues related to virtual influencers are also present in the literature. Such a lack of authenticity and emotional depth is brought about by the lack of human authenticity. Scholars posit that in as much as virtual influencers have the ability to recreate the superficial social cues, they might not have the ability to form deep relational connections due to lack of genuine emotions. This conflict between technology and perceived artificiality is a vital base of the interpretation of consumer trust and involvement in the marketing contexts of AI.

Consumer Trust in AI-Generated Influencers

Traditionally, consumer trust is the core construct of marketing literature, which is founded on the perception of credibility, honesty, and reliability (Kang et.al,2014). In the context of influencer marketing, trust was closely correlated with authenticity and perceived similarity between influencers and

their audiences. The advent of virtual influencers makes this relationship even more complex because it changes the definition of authenticity in the digital world. Available sources indicate that, it is not that no trust is formed in AI-generated influencers, but that their systems can be generated by consistency, transparency and executional processes rather than human authenticity per se. Virtual influencers tend to be very consistent in communication and actions to a point of building trust based on reliability. The virtual influencers might not have human feelings that consumers are looking at; rather, they might judge them in terms of entertainment, informational utility, and brand fit. This change implies that the level of trust towards virtual influencers can be more instrumental and functional instead of relational. Consumer knowledge of artificial intelligence is another important determinant of trust. Literature also emphasizes the fact that when the consumers know that virtual influencers are not real, their trust reactions are uneven, as they respond differently based on personal attitudes towards technology. Virtual influencers can also be seen as innovative and reliable by technologically optimistic consumers because they can be more precise and lack any hidden motives, which can be treated as evidence of their ethical behavior as well. On the other hand, the perceived ethical intent can be a substantial factor in perceiving the virtual influencer as an innovative and trustworthy individual, especially when transparency is in place. The literature highlights that customers have become more worried about the use of data, manipulation of algorithms, and psychological targeting of AI marketing. As the products of AI systems, virtual influencers can also cause ethical issues of monitoring, persuasion, and consumer freedom. When brands are clear on the fact that influencers are artificial and show responsible AI practices, trust can be built more easily.

Brand Engagement Through Virtual Influencer Marketing

The concept of brand engagement has changed to active participation, emotion involvement, and communication interaction as compared to passive consumption. Literature on digital marketing has highlighted that

engagement is an important predictor of brand loyalty, advocacy and value creation in the long-term. Virtual influencers help in brand engagement because they provide brand experience, which is immersive, interactive, and personalized, which resonate with the dynamics of the social media ecosystems. The fact that they can work 24/7 and create content depending on the reaction of the audience is a significant boost of sustained engagement. The narrative flexibility of virtual influencers is one of the greatest advantages of influencers. The virtual lives, personas and plotlines created by the brands are well fitted to correspond with the brand values and marketing goals. Such stories are able to run through time forming episodic content that promotes continuous engagement. It has been proposed by the literature that these storytelling tricks raise the level of emotional engagement and consumer-brand associations, even when these relationships are mediated by artificial agents.

Another important aspect of engagement that is facilitated by virtual influencers is interactivity. The use of AI in chat, comment feedback, and the recommendation of individual content can make consumers feel appreciated and engaged. Research shows that perceived responsiveness makes interaction more interesting by establishing a feeling of a conversation instead of one- directional communication. Novelty and innovation are other factors in the literature that enable virtual influencers to simulate that kind of interaction on a large scale without the fatigue that human influencers are known to experience. Virtual influencers are a comparatively young trend, and their originality attracts consumers in the digital space that is saturated. This element of novelty can boost the levels of engagement in the first place, especially in young viewers who appreciate technological experimentation. Nevertheless, researchers also warn that the novelty is only not enough to maintain engagement in the long term, but meaningful content and perceived value make the difference.

Lastly, current studies underline the strategic consequences of the influencer-led engagement, which is virtual. Although the high engagement metrics can be an indication of success, the brands have to consider the quality and depth of the engagement. Superficiality in relationships may fail to lead to actual brand attachment or intentions of purchase. Thus, the literature emphasizes the need to align the strategy of virtual influencers with the larger brand objectives so that the engagement could lead to trust, credibility, and the brand equity in the era of AI marketing. Additional literature also indicates that emotional trust in virtual influencers can be small and not nonexistent. Though consumers do not have as strong emotional connections as human influencers, they might share such affective reactions like enjoyment, admiration, and curiosity. Such feelings will lead to a mediated trust that will facilitate interaction and brand participation. On the whole, the current studies suggest that the consumer trust in virtual influencers is multidimensional and very context-specific and individual.

Methodology

The research design to be pursued in this study is quantitative because the authors planned to analyze the effects of virtual influencers on consumer trust and brand engagement within AI-oriented marketing systematically. Quantitative method is the right one because it enables the measurement of consumer perceptions, attitudes and behavioral intentions using structured data and the analysis of relationships between important variables to be presented statistically and can be objectively interpreted. The study is cross-sectional by essence and targets the consumer reactions at one instance in time to portray the current opinions towards virtual influencers. This design can be used to determine overall patterns and relationships between exposure to virtual influencer content, levels of consumer trust, and the levels of brand engagement. The design is structured in such a way that it provides uniformity in data gathering and promotes the dependability of the results that would apply to the current digital marketing trends. The population of this research

will be active social media users that are frequently exposed to the content of influencer marketing in digital platforms. The reason why this population is chosen is that the virtual influencers are mostly active in the social media setting where the consumers interact, engage with the content, and communicate with the brand. The representatives of this demographic are assumed to be already familiar with the concept of influencer marketing and are therefore likely to respond to the questions with some level of informed answers concerning their attitude toward virtual influencers. The sample size used is that which is able to sustain significant statistical analysis and sufficient enough to reflect various demographic features of the population including age, gender and frequency of use of social media sites. The sample size will be calculated to provide a balance between statistical power and practical feasibility, which will allow the study to provide credible and generalizable information on consumer trust and brand engagement in the context of AI marketing.

The study uses a non-probability sampling method, which is convenience sampling to recruit the participants. This method is appropriate because the research is digital and the users of the social media are accessible via the online medium. The participants are chosen on the basis of their availability and desire to take part, and the selection criteria are made in such a manner that it is assured that the respondents participated in virtual or AI-generated influencer content. Although the use of convenience sampling might not represent the entire population fully, it suits exploration studies in a developing area like virtual influencer marketing. The method makes it possible to gather data efficiently and analyze it in time and record the appropriate consumer attitudes in a quickly changing digital landscape.

The study data is collected using a structured online questionnaire that will evaluate the consumer trust and brand engagement in connection with virtual influencers. Through the study, the questionnaire is administered online using the social media and digital communication platforms to access

the target population. Leading questions are given and confidentiality assured to the respondents to make them answer honestly and correctly. The tool contains several questions related to demographic data, exposure to the content of the virtual influencer, perceived credibility, and the degree of involvement in the brands promoted by the virtual influencer. It is especially suitable to the online mode of data collection, which fits into the digital environment in which virtual influencers are active and enables the respondents to do the survey at the convenient time. Special attention to ethical principles is paid to the research process to prevent the violation of the rights of the participants and their privacy. All respondents will be requested to give an informed consent to participate in the study, as this will be a voluntary process. The respondents are made aware of the objective of the research and their freedom to withdraw any time without any form of punishment. None of the personal identifiable information is gathered, and all feedback is utilized to conduct academic research. Such ethical considerations are used to increase the validity of the research and adherence to accepted research practices.

Results

Descriptive Statistics

This analysis commences by giving an overview of the demographic characteristics of the respondents so that the diversity and relevance of the sample can be established. The information shows that the respondents represented a very diverse population in terms of age groups, gender, and types of social media taking habits, which made such a group meaningful in terms of the consumer perception of virtual influence practitioners. The majority of the respondents said that they regularly saw the content of influencer marketing, which validates the appropriateness of this cohort to study the topic of trust and engagement in the context of AI-powered marketing.

Table 1: *Demographic Profile of Respondents*

Category	Frequency	Percentage
Gender (Male)	112	56%
Gender (Female)	88	44%
Age (18–25)	76	38%
Age (26–35)	84	42%
Age (36 and above)	40	20%
Daily Social Media Use (3+ hours)	138	69%

The results demonstrate that the majority of respondents were young adults who actively engage with social media platforms on a daily basis. This demographic is particularly relevant to the study, as younger users are more exposed to virtual influencers and AI-driven content. High levels of social media usage suggest frequent interaction with influencer marketing, increasing the reliability of responses related to trust and brand engagement.

Consumer Trust in Virtual Influencers

To assess consumer trust, respondents were asked to evaluate virtual influencers based on perceived credibility, transparency, and reliability. The findings indicate moderate to high levels of trust, suggesting that consumers are willing to accept AI-generated influencers as legitimate brand endorsers under certain conditions.

Table 2: *Consumer Trust Levels Toward Virtual Influencers*

Trust Dimension	Mean Score	Standard Deviation
Credibility	3.72	0.84
Transparency	3.65	0.79
Reliability	3.81	0.88
Overall Trust	3.73	0.82

The results reveal that reliability received the highest mean score, indicating that respondents perceive virtual influencers as consistent and dependable in delivering brand messages. Transparency and credibility also scored above the neutral midpoint, suggesting that consumers are generally comfortable trusting virtual influencers when their artificial nature is clearly communicated. These findings support the idea that trust in virtual influencers is shaped more by performance consistency than by human authenticity.

Brand Engagement Generated by Virtual Influencers

Brand engagement was measured through indicators such as attention, interaction, and intention to follow or explore brands promoted by virtual influencers. The results indicate that virtual influencers are effective in stimulating consumer engagement, particularly in terms of content interaction and brand curiosity.

Table 3: Brand Engagement Levels Influenced by Virtual Influencers

Engagement Indicator	Mean Score	Standard Deviation
Attention to Brand Content	3.89	0.76
Interaction (Likes, Comments, Shares)	3.94	0.81
Brand Exploration Intention	3.68	0.85
Overall Brand Engagement	3.84	0.80

The findings indicate that virtual influencers successfully capture consumer attention and encourage interaction with branded content. The high interaction score reflects consumers' willingness to engage with AI-generated influencers through likes, comments, and shares. Although brand exploration intention scored slightly lower, it remained above average, suggesting that engagement driven by virtual influencers has the potential to translate into deeper brand involvement.

Relationship Between Consumer Trust and Brand Engagement

To examine the relationship between consumer trust and brand engagement, correlation analysis was conducted. The results indicate a positive and meaningful association between trust in virtual influencers and levels of brand engagement.

Table 4: Correlation Between Consumer Trust and Brand Engagement

Variables	Correlation Coefficient
Consumer Trust and Brand Engagement	0.62

The positive correlation coefficient indicates that higher levels of consumer trust in virtual influencers are associated with increased brand engagement. This suggests that trust plays a critical role in determining the effectiveness of virtual influencer marketing. When consumers perceive virtual influencers as credible and reliable, they are more likely to interact with brands and develop interest in branded offerings. This finding highlights the importance of trust-building strategies in AI-driven influencer campaigns.

Discussion

The results of this research give valuable information on increasing the role of virtual influencers in marketing based on AI and their impact on consumer trust and brand relationships. The findings suggest that virtual influencers have been embraced by consumers as authentic and entertaining representatives of brands especially in the very digital and social media intensive contexts. This acceptance is an extension of the larger consumer behavioral change with technological innovation and digital creativity as the core elements of marketing performance. With the help of the research, it is proved that virtual influencers are not only a new phenomenon but an emerging strategic resource, which can influence the perception of consumers and their interactions with brands.

The moderate to high level of trust on virtual influencers by consumers is one of the greatest consequences of the study. These influencers have no human experience, but respondents considered them as credible and steady one to convey brand messages. This indicates that the construction of trust on AI-generated influencers is not the same as that of human influencers. Instead of basing it on personal truthfulness or emotional recognizability, the trust seems to be determined by clarity and transparency of the message and predictable behavior. As long as consumers are aware of the unnatural state of virtual influencers and see no possible attempts to deceive them, it appears that they are ready to trust them, which is why openness and ethical communication in AI marketing are crucial.

The brand engagement data also supports the suitability of virtual influencers as other drivers of engagement. The level of attention and interaction is high, which responds to the fact that virtual influencers are effective in drawing the attention of consumers toward the overcrowded digital environments. Their attractive design, novel narratives and consistent presence on the internet are some of the reasons why people are drawn to branded content in the long-term. These results indicate that active consumer engagement can be provoked by virtual influencers that is an essential indicator of marketing success in the social media context. Nonetheless, the moderately less scores in brand exploration intention suggest that although the engagement is high, the conversion of engagement into more intensive brand commitment might need more strategic work.

The correlation between consumer trust and brand engagement that is founded on the positive relationship found in this study further highlights the interdependence between the two constructs in virtual influencer marketing. The more trust the consumer has, the more he or she would engage with a brand and its content. This association emphasizes that trust is a cornerstone of relationship that boosts the effects of the engagement strategies. In the absence of trust, interactive possibilities of virtual influencers might not bring

any significant result. Thus, the brands should focus more on the mechanisms of building trust, e.g., being transparent about using AI and being consistent in their message to enjoy the maximization of engagement advantages.

The implications of the discussion to the marketing practitioners are also important. Although virtual influencers give brands a higher level of control and a lower reputation risk than human influencers, too much unnatural perfection can restrain the emotional connection. It seems that consumers are willing to associate with virtual influencers on a cognitive and entertainment level without because of the establishment of strong emotional bonds. It implies that the virtual influencer strategy must be combined with larger brand stories and people-focused marketing strategies to bring a balanced and sustainable result.

Altogether, the discussion proves that virtual influencers are a disruptive trend in AI marketing because they redefine the way trust and engagement are built in the digital space. Their success is not only reliant upon their technological level but also on the perception of consumers, ethical aspects and a strategic direction in accordance with brand values. With the further development of AI, the dynamics of these relationships will be crucial to comprehending the relationships that brands that are interested in creating meaningful and trustful relationships with consumers in the digital era.

Practical Implications

The results of this paper provide a number of practical implications that marketers and brand managers working in the era of AI-driven marketing can have. To begin with, the brands that consider the utilization of virtual influencers should pay more attention to the aspect of transparency in terms of the artificiality of such beings. Transparency leads to increased consumer confidence and lowers perceptions of fraud, and this increases brand engagement. Second, the predictability and manageability of virtual influencers should be used to ensure consistent brand communication in the digital space. Compared to human influencers, virtual influencers can help a

brand reduce reputational risks and align with brand values, which is why it is especially helpful when the brand runs long-term campaigns.

Besides that, marketers are advised to work on creating virtual influencers that have more relatable stories and are able to interact to increase the quality of engagement. Although the visual impression is attractive, the conversations will not last long without meaningful content that appeals to the interests of the consumers. Virtual influencers need to be incorporated into the larger digital strategy of the brands, not as a separate promotional tool. The work with AI-based influencers and human-led marketing campaigns might help to strike the right balance between the level of innovation and the emotional genuineness. Lastly, in order to optimize the strategies of virtual influencers, constant observation of consumer reactions is necessary to make sure that they produce a positive effect in terms of trust, engagement, and general brand equity.

Limitations and Future Direction

This research is also limited in some ways. The cross-sectional design does not allow tracking the dynamics of consumer trust and engagement over the course of time. Also, the use of self-reported information can also lead to response bias because the perception of a subject might not necessarily indicate a particular behavior. Convenience sampling is also a limitation in the generalizability of the results to larger groups especially in different cultural settings.

The prospective studies should consider longitudinal designs that can determine the efficacy of consumer trust in virtual influencers as time goes by. The comparative analysis of virtual and human influencers may help to understand their comparability in terms of performance in a better way. Additionally, research can be conducted in the future to examine the ethical aspects of AI influencer marketing such as consumer autonomy and algorithmic transparency. Research on the more industry-specific uses of

virtual influencers would also contribute to comprehension of their strategic capability in various market segments.

Conclusion

This paper has explored the emergence of online influencers and their effect on brand loyalty and trust in the era of AI marketing. The results have shown that virtual influencers have the potential to create successful engagement and gain the trust of consumers under the conditions of transparent and strategic management. Trust proved to be one of the determining factors of engagement results, and ethical and consistent AI practices are essential. Virtual influencers will probably take on a more significant role as artificial intelligence keeps on redefining marketing communication. By knowing what they can imply, the brands can embrace innovation without any harm and still have significant relationships with consumers in the digital age.

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