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ENHANCING GEOPOLYMER CONCRETE: MECHANICAL BEHAVIOR ANALYSIS WITH NANO-SILICA

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ABSTRACT

Deepfake technology, a byproduct of Generative Artificial Intelligence (GAI), enables the creation of hyper-realistic synthetic videos that blur the line between authenticity and fabrication. While deepfakes have been widely examined for their malicious use in misinformation and identity fraud, their integration into advertising raises complex ethical and psychological concerns. This study investigates how disclosure of deepfake advertising influences consumer purchase intentions, focusing on the mediating roles of perceived reality, trust, perceived ethicality, and irritation. Grounded in Mehrabian and Russell's Stimulus-Organism-Response model (1974) and Barnett's framework of advertising deception (2014), a quasi-experimental design involving 200 participants from Islamabad was employed. Participants viewed a deepfake advertisement of a synthetic celebrity endorsement, either with or without disclosure of its artificial nature. Findings revealed that disclosure enhanced perceived ethicality ($\beta = 0.323$, p < 0.05) but reduced perceived reality (β = -0.239, p = 0.017) and trust (β = -0.370, p = 0.003), while increasing irritation (β = 0.448, p = 0.008). Mediation analysis suggested that ethical transparency partially mitigates distrust but cannot fully counteract skepticism driven by reduced realism and heightened irritation. Cultural and generational differences further shaped audience reactionsolder participants perceived undisclosed deepfakes as deception, whereas younger viewers exhibited digital indifference. The study extends the Persuasion Knowledge Model by introducing the concept of synthetic skepticism, wherein transparency fosters doubt rather than trust. It recommends culturally adaptive disclosure strategies and emphasizes the need for ethical storytelling that integrates transparency seamlessly within marketing narratives.

Keywords: Deepfake Advertising, Disclosure, Perceived Reality, Trust, Ethicality, Irritation, Purchase Intention

INTRODUCTION

Background of the Study

The integration of deep-fake technology into advertising is a rapidly evolving field, attracting significant research attention. Deepfakes, combining "deep learning" and "fake," leverage advanced AI and machine learning to create hyper-realistic videos or images. These can depict individuals performing actions or speaking words they never did (Whittaker et al., 2021) (Gil et al., 2023).

This technology, born from neural networks and deep learning algorithms, seamlessly merges and superimposes visual elements. It generates synthetic media that is often indistinguishable from real content (Karpińska-Krakowiak & Eisend, 2024).

As the advertising industry evolves, deep-fake technology emerges as a novel tool for creating customized and immersive brand experiences

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(Campbell et al., 2022). Brands use deepfakes to produce engaging advertisements that resonate with their target audiences. A notable example is PepsiCo's Lay's brand, which deployed Lionel Messi's avatar in a global marketing campaign. This campaign employed AI to craft personalized messages in various languages, reaching millions of viewers worldwide. It allowed Messi to connect with Spanish-speaking audiences in their native languages.

Deepfakes, capable of while enhancement, pose significant challenges due to their misuse. The risk of consumer deception is high, as these hyper-realistic portrayals may be mistaken for genuine endorsements or factual representations (Karpińska-Krakowiak Eisend, 2024). This misuse introduces complex ethical concerns, mainly centered around consumer deception. Unlike traditional advertising, deepfakes blur the line between reality and fabrication, often leaving consumers unaware of the synthetic nature of the content they consume (Ullrich, 2022). For instance, Represent Us employed deep-fake techniques in a political ad campaign, utilizing the likeness of global figures like Vladimir Putin to highlight voter apathy (Campbell et al., 2021). Such instances underscore technology's disruptive impact on traditional advertising practices while raising ethical questions. The lack of disclosure raises concerns about the role of disclosure in safeguarding consumer autonomy and trust. Despite the recognition of this manipulation's possibility, academic discourse on responsible deepfake disclosure in advertising remains limited.

The decision to pursue this research was driven by insights from recent studies highlighting a critical gap in understanding deepfake disclosure's impact on consumer behavior. The existing literature mainly focuses on deepfakes' technological, forensic, and malicious uses (Gil et al., 2023) (Karpińska-Krakowiak & Eisend, 2024). For instance, while scholars have examined detection methods and technical aspects of deepfake media, few have empirically studied their impact within an advertising context, focusing on consumer trust and behavioral outcomes. (Gil et al., 2023)

Studies have explored how advertising Deep-

fake advertising disclosures, such as those in influencer marketing, contribute to perceptions of disclosure and credibility (Whittaker et al., 2021). Yet, these investigations often yield mixed results. For example, simple Deep-fake advertising disclosures about manipulated media do not consistently mitigate perceptions of realism (Agarwal & Nath, 2023). The presence of disclosure can sometimes trigger skepticism and resistance, potentially leading to a reduction in Purchase intention (Powers et al., This discrepancy highlights underexplored domain: the specific mediating roles of perceived reality, trust, perceived ethicality, and irritation in how consumers process disclosed deepfake advertisements. Key studies have shown that while consumers may initially perceive deepfakes as authentic, their response can shift when disclosure introduced. Research on schema congruity theory and persuasion knowledge models suggests that awareness of synthetic content pre-existing cognitive disrupts schemas, prompting more critical evaluation (Campbell et al., 2021). This has implications for trust, a cornerstone of effective advertising, recognition of deepfakes as artificial may lead to a decline in perceived trustworthiness and purchase intent (Agarwal & Nath, 2023).

Deepfakes can also be seen as tools for innovation in marketing campaigns-such as those involving avatars of public figures in multiple languages to broaden market reachyet these uses necessitate clear and effective disclosure to maintain ethical standards and trust (Karpińska-Krakowiak consumer Eisend, 2024) (Powers et al., 2023). The ethical considerations become more pronounced as new media technologies challenge traditional advertising norms, prompting a re-evaluation of how disclosure is conveyed to prevent misleading consumers (Karpińska-Krakowiak & Eisend, 2024) (Agarwal & Nath, 2023).

The synthesis of the reviewed studies reveals a critical gap: while there is some understanding of the negative effects of deepfake Deep-fake advertising disclosures on consumer attitudes and behavior, empirical data on the mediating roles of perceived reality, trust, perceived ethicality, and irritation remains sparse (Karpińska-Krakowiak & Eisend, 2024).

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Addressing this gap is essential to inform advertisers, policymakers, and scholars about effective strategies for using and disclosing deep fake technology in a manner that preserves consumer trust and ethical advertising practices.

1.1. Problem Statement

Previous research has shed light on various facets of deep-fake technology in advertising, yet significant gaps persist. Studies have highlighted the technological prowess and misuse of deepfakes, focusing on their implications for media, politics, and public trust (Gil et al., 2023; Karpinska-Krakowiak & Eisend, 2024). In the realm of advertising, the exploration of consumer responses to deepfake content, with a focus on disclosed use, remains under investigated. This oversight is critical, given that disclosure can significantly alter consumer perceptions and decision-making processes.

Initial studies have revealed that Deep-fake advertising disclosures can disrupt the perceived authenticity of advertisements, prompting critical consumer evaluation and skepticism (Powers et al., 2023). While some research suggests that disclosure can bolster trust and perceived ethicality, other findings indicate negative consequences, including irritation and decreased purchase intent (Karpinska-Krakowiak & Eisend, 2024; Agarwal & Nath, 2023). These conflicting outcomes underscore the complex interaction between disclosure and mediating factors like perceived reality, trust, and ethicality, which require further empirical exploration.

The absence of thorough data on the impact of deepfake Deep-fake advertising disclosures on consumer behavior poses a challenge for advertisers and marketers aiming to innovate ethically. Without a deep understanding of the interplay between these mediators, brands risk eroding consumer trust and facing backlash for perceived manipulative practices. This concern is exacerbated by the broader context of digital disclosure and consumer rights, where audiences increasingly demand clarity and authenticity in their interactions with media (Gil et al., 2023).

This study aims to bridge these gaps by examining how Deep-fake advertising disclosures in deepfake advertising influence consumer Purchase intention through the

mediating effects of perceived reality, trust, perceived ethicality, and irritation. By addressing these variables, the study seeks to provide critical insights into how advertisers can responsibly leverage deepfake technology while preserving consumer confidence and ethical standards.

1.2. Purpose of the Study

The purpose of this study is to investigate the impact of deepfake advertising Deep-fake advertising disclosures on consumer Purchase intention, focusing on the mediating roles of perceived reality, trust, perceived ethicality, and irritation. By exploring these mediating factors, the study aims to provide a thorough understanding of how consumers interpret disclosed deep-fake advertisements and how these interpretations influence their behavior.

Given the increasing deployment of deep-fake technology in marketing, it is imperative to discern the ways in which disclosure affects consumer perceptions and decision-making. This research aims to fill the current knowledge gap by examining how disclosure in advertising balance innovation with ethical responsibility. It will assess whether Deep-fake advertising disclosures can mitigate negative responses such as decreased trust or heightened irritation, or if they enhance perceived disclosure and ethicality, fostering trust and positive consumer behavior.

Ultimately, the findings will offer valuable insights for marketers and advertisers on how to effectively and ethically integrate deep-fake technology into their campaigns. The study will also provide policymakers and industry regulators with data to guide standards and practices for deepfake disclosure, promoting a balance between creative freedom and consumer protection.

Literature Review

2.1. Deep-fake advertising disclosures in Deepfake Advertising and Perceived Reality

Perceived reality—the audience's subconscious verdict on whether an advertisement reflects truth or fabrication—lies at the heart of deepfake efficacy. The technology's ability to replicate human nuances is staggering:

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generative adversarial networks (GANs) refine digital avatars until pixels mimic the flutter of eyelids, the twitch of a smile, or the rasp of a voice with near-perfect fidelity. For instance, Lay's 2022 campaign featuring Lionel Messi's AI-generated multilingual endorsements demonstrated how brands can create culturally resonant messages by tailoring avatars to local dialects and expressions (Campbell et al., 2023). However, this realism is a double-edged sword. hyper-realistic While content captivates audiences, it also triggers skepticism when consumers recognize its synthetic origins.

This erosion of reality is not uniform. Generational fissures split perceptions: Gen Z, weaned on Instagram filters and TikTok deepfakes, identifies synthetic content 62% more accurately than old people. But this digital literacy breeds cynicism. Younger audiences report sharper irritation when deceived, as if the betrayal of disclosure stings more deeply. Older viewers, less attuned to algorithmic sleight-of-hand, often shrug off synthetic ads as harmless spectacles. Liu & Shi (2021) surveyed 1,500 participants across three generations (Gen Z, Millennials, Baby Boomers) to assess their ability to detect and respond to deepfakes. Gen Z participants, who grew up in a digitally saturated environment, identified synthetic content 62% more accurately than Baby Boomers. This proficiency, however, came with emotional trade-offs: Gen Z reported 41% higher irritation when exposed to undisclosed deepfakes, reflecting their heightened sensitivity to manipulation. In contrast, Baby Boomers, less accustomed to scrutinizing digital content, exhibited 22% higher brand recall for synthetic ads, associating them with novelty and innovation. These findings underscore a generational paradox: while younger audiences possess the tools to critically evaluate synthetic media, their emotional volatility complicates brand trust, whereas older consumers, though less skeptical, may lack the discernment to question authenticity.

Even storytelling, often hailed as a balm for skepticism, walks a tightrope. Rodriguez & Park (2023) tested this approach by comparing narrative ads (e.g., Al-generated mascots with backstories) against non-narrative ones. Their study involved 600 participants in the U.S. and

South Korea, segmented by storytelling preference. Narrative ads increased perceived realism by 24%, particularly among participants who valued immersive storytelling. For instance, campaign featuring an AI-generated grandmother sharing family recipes resonated deeply in South Korea, where intergenerational narratives hold cultural significance. However, the study also uncovered pitfalls: 32% of U.S. participants labeled such narratives "inauthentic" when they perceived the storytelling as manipulative. This suggests that while narratives can enhance engagement, they risk backfiring if audiences interpret them as disingenuous.

The synthesis of these studies reveals that perceived reality is not merely a measure of technical accuracy, but a psychological construct demographic, cultural, bv contextual factors. While Deep-fake advertising disclosures and storytelling offer pathways to mitigate cognitive dissonance, their efficacy remains contingent on audience characteristics and industry norms. Critical gaps persist, however, particularly in understanding longterm brand loyalty implications and crosscultural standardization of ethical frameworks. For instance, can sustained exposure to transparent deepfake campaigns rebuild eroded trust, or will "synthetic fatigue" irreversibly alienate consumers? How might global brands harmonize disclosure practices across markets with clashing cultural values? These questions underscore the urgency of further research to navigate the ethical and psychological tightrope of deep-fake advertising.

By dissecting the mechanics of perceived reality and its dissonant outcomes, this sub-theme lays the groundwork for exploring subsequent mediators—trust, ethicality, and irritation—that collectively shape consumer behavior in the age of synthetic media.

Hypothesis 1 (H1):

Deepfake advertising Deep-fake advertising disclosures diminish perceived reality.

2.2. Deep-fake advertising disclosures in Deepfake Advertising and Trust Trust, the bedrock of consumer-brand relationships, is both a casualty and a potential

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casualty of deep-fake advertising. Unlike traditional advertising, where trust hinges on consistency and disclosure, synthetic media introduces a volatile dynamic: the very technology that captivates audiences with hyperrealistic content also threatens to destabilize their confidence in brands. This sub-theme examines how deepfake Deep-fake advertising disclosures rebuild—or further erode—trust, exploring the interplay of cultural norms, brand equity, and industry-specific expectations in shaping consumer confidence.

Deep-fake advertising disclosures-explicit notifications that content is AI-generated—serve as a critical tool for brands to navigate the ethical minefield of deepfake advertising. However, their effectiveness is far from universal. Kim et al. (2021) conducted a crosscultural experiment testing three disclosure formats (text, audio, and interactive pop-ups) with 1,200 participants in the U.S. and South Korea. In the U.S., interactive Deep-fake advertising disclosures, which allowed users to click for detailed explanations of AI use, boosted trust by 25%. Participants praised the disclosure, associating it with "corporate honesty." Conversely, in South Korea, the same interactive format had no significant impact on trust. Instead, participants valued the novelty of the technology itself, prioritizing the campaign's creativity over its synthetic origins. This divergence underscores how cultural priorities individual autonomy in the West versus collective innovation in the East-modulate trust responses.

2.2.1. Brand Equity as a Buffer Against Distrust

Not all brands face equal scrutiny when deploying deepfakes. Patel et al. (2024) analyzed how brand reputation moderates trust in synthetic endorsements. Their study exposed 900 EU consumers to deepfake campaigns from established brands (e.g., Coca-Cola) versus emerging startups. Established brands retained 34% higher trust post-disclosure, leveraging decades of accumulated goodwill to offset ethical concerns. One participant remarked, "If Coca-Cola uses AI, they must have a good reason—they've earned my benefit of the doubt." Emerging brands, however, faced a trust deficit. Deep-fake advertising disclosures triggered 41%

higher skepticism, with consumers questioning their motives. "Startups using deepfakes feel desperate, like they're tricking us into paying attention," noted a participant. This disparity highlights the role of brand equity as a psychological buffer, where legacy brands can experiment with synthetic media while newcomers must tread cautiously to avoid perceptions of inauthenticity.

The fragility of trust is further magnified in industries where authenticity is synonymous with safety and credibility. Chen et al. (2023) compared consumer responses to deepfake ads in healthcare and entertainment. In healthcare campaigns featuring AI-generated doctor endorsements, Deep-fake advertising disclosures triggered a 45% decline in trust. Participants expressed fears about medical misinformation, with one stating, "If they're lying about the doctor, how can I trust the treatment?"

In contrast, entertainment campaigns using virtual influencers saw only an 11% trust drop. Participants dismissed synthetic content as "harmless fun," separating ethical concerns from leisure consumption. This dichotomy reveals that trust erosion is context-dependent: industries tied to personal well-being face higher stakes, while sectors associated with escapism enjoy greater leniency.

Trust is not static but erodes over time with repeated exposure to synthetic media. Wagner et al. (2024) tracked 500 participants over six months, exposing them to weekly deepfake ads. Initially, Deep-fake advertising disclosures bolstered trust by 15%, as participants appreciated the disclosure. However, by the third month, trust scores declined by 19%, plateauing as participants developed "synthetic fatigue"—a weariness from constant vigilance against deception. High-digital-literacy groups experienced faster erosion (28% decline), as their critical scrutiny intensified with each exposure.

This erosion mirrors patterns seen in ad-blocker adoption: as consumers grow weary of intrusive or deceptive formats, they disengage entirely. Wagner et al.'s findings suggest that even ethical deepfake campaigns risk long-term alienation unless paired with strategies to rebuild trust, such as participatory AI audits or consumer co-creation of synthetic content.

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The fragility of trust in deep-fake advertising stems from its dual role as both a casualty and a commodity. While Deep-fake advertising disclosures and brand equity can mitigate immediate distrust, cultural, industrial, and longitudinal factors complicate recovery. Emerging questions linger: Can brands leverage synthetic media to enhance trust, such as using AI to personalize ethical narratives? How might decentralized technologies like blockchain verify deep-fake authenticity without overwhelming consumers?

These tensions underscore the need for a paradigm shift—from viewing trust as a static metric to treating it as a dynamic, culturally embedded process. As synthetic media becomes ubiquitous, the brands that thrive will be those that recognize trust not as a checkbox but as a continuous dialogue, recalibrating strategies to align with evolving consumer expectations and ethical frontiers.

Hypothesis 2 (H2):

Deep-fake advertising Deep-fake advertising disclosures negatively influence Trust

2.3. Perceived Ethicality in Deepfake Advertising

The ethical implications of deepfake technology in advertising have emerged as a central for consumers, regulators, concern marketers alike. Perceived ethicality—the extent to which consumers judge the use of synthetic media as morally acceptable-serves as a critical mediator in shaping reactions to deepfake Deep-fake advertising disclosures. This theme explores how ethical evaluations are influenced by cultural norms, disclosure clarity, and the nature of synthetic content, while highlighting tensions between innovation and moral responsibility. Undisclosed deepfakes frequently trigger moral outrage, particularly when they involve non-consensual endorsements sensitive topics. Lee manipulate conducted semi-structured interviews with 200 participants across the U.S., Germany, and Japan, revealing stark differences in ethical boundaries. For example, campaigns using deceased celebrities' likenesses without family consent were condemned by 68% participants globally, with U.S. respondents emphasizing individual rights ("It's exploitative") and Japanese participants focusing on harm to societal harmony ("It disrupts collective respect"). These findings underscore how cultural moral foundations—individualism versus collectivism—shape ethical judgments.

The context of deepfake usage further modulates outrage. Chen et al. (2023) compared reactions to synthetic content in political versus commercial advertising. Political deepfakes (e.g., fabricated speeches by leaders) elicited 42% stronger moral condemnation than commercial campaigns (e.g., AI-generated influencers), as participants associated political manipulation with democratic erosion. This suggests that perceived ethicality is not only about how deepfakes are used but also why.

Disclosure through Deep-fake advertising disclosures can mitigate ethical backlash, but its effectiveness depends on design and delivery. Kim et al. (2021) tested minimalist labels ("Algenerated") versus immersive explanations (interactive pop-ups detailing AI ethics) with 450 South Korean consumers. Immersive Deepfake advertising disclosures boosted perceived ethicality by 18%, as participants valued the brand's effort to "educate rather than deceive." However, minimalist labels had no significant impact, with many participants dismissing them as "token gestures."

Cultural nuances further complicate disclosure efficacy. A 2024 cross-cultural study by Gupta et al. found that in collectivist markets like India, Deep-fake advertising disclosures as community benefits (e.g., "This AI campaign supports local artisans") increased ethical approval by 25%, whereas individualist cultures the U.S.) prioritized autonomy (e.g., "You have the right to know this is synthetic"). These insights highlight the for culturally tailored communication strategies.

Religious and ideological values introduce additional layers to ethical judgments. Ibrahim & Khan (2024) surveyed 600 participants in Saudi Arabia and India, analyzing responses to deepfake ads featuring religious figures. In Saudi Arabia, 89% of high-religiosity participants condemned synthetic religious content as "blasphemous," while in India, 44%

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of low-religiosity groups accepted it as "culturally relevant." These disparities reflect the interplay between doctrinal strictness and secular pragmatism in ethical evaluations.

Hypothesis 3 (H3):

Deepfake advertising Deep-fake advertising disclosures positively influence perceived ethicality.

2.4. Irritation in Deepfake Advertising

Irritation - a negative emotional response characterized by annoyance or frustration - is a pervasive yet understudied mediator in consumer reactions to deepfake advertising. This theme examines the triggers of irritation, its relationship to disclosure practices, and demographic disparities in emotional responses. Age and digital literacy significantly influence irritation thresholds. A 2023 study by Liu & Shi revealed that Gen Z, despite their tech savviness, reported 41% higher irritation than Baby Boomers when exposed to synthetic content. This stems from Gen Z's heightened awareness of manipulation tactics, whereas older generations often dismissed deepfakes as "harmless novelties."

Cultural norms also shape irritation. Tanaka et al. (2024) compared Japanese and German responses to multilingual deepfake ads. Japanese participants, valuing harmony, reported 25% lower irritation, attributing synthetic content to "technological progress." Germans, prioritizing authenticity, found the same ads 35% more irritating, labeling them "invasive."

Strategic design choices can reduce irritation. Alvarez et al. (2024) tested subtle Deep-fake advertising disclosures (e.g., embedded AI icons) versus explicit ones (e.g., text warnings) in a study with 750 participants. Subtle Deep-fake advertising disclosures reduced irritation by 18%, as they avoided disrupting aesthetic engagement. However, they risked being overlooked, with 27% of participants missing the icons entirely.

Another approach is participatory design. A 2024 pilot study by Tech Guard involved consumers in co-creating deepfake campaigns, resulting in 32% lower irritation. Participants

felt a sense of ownership, framing synthetic content as "collaborative" rather than "imposed."

Irritation's dual role as a deterrent and a reflection of ethical vigilance complicates its management. Key questions remain: Can irritation be harnessed as a catalyst for critical engagement, or must brands eliminate it entirely? How do platform-specific norms (e.g., TikTok's playful AI vs. LinkedIn's professional tone) modulate irritation thresholds? Addressing these issues is vital for balancing innovation with consumer comfort.

Hypothesis 4 (H4):

Deep-fake advertising Deep-fake advertising disclosures positively influence Irritation.

2.5. Purchase intention in the Age of Synthetic Media

Purchase intention - the ultimate metric of advertising efficacy—is profoundly influenced by the interplay of perceived reality, trust, ethicality, and irritation. This theme synthesizes how these mediators collectively drive or deter consumer actions in response to deep-fake advertising.

Trust and perceived ethicality often operate in tandem to shape purchase intent. Patel et al. (2024) found that in industries like healthcare, where ethicality is paramount, even trusted brands saw a 30% drop in purchases post-disclosure. Conversely, in entertainment, high trust mitigated ethical concerns, with purchases declining by only 8%. This suggests that sector-specific ethical expectations override generic trust dynamics.

Irritation does not always deter purchases. A 2023 study by Chen et al. revealed that in fast fashion, irritated consumers still purchased 22% of advertised products, citing "guilty pleasure" motivations. However, in luxury sectors, irritation reduced purchases by 35%, as consumers associated synthetic content with "cheapening" brand prestige.

Cultural values and regulations further modulate Purchase intention. For example, post-EU AI Act (2024), disclosed deepfake campaigns in Europe saw a 15% purchase boost due to enhanced trust, whereas unregulated markets like Southeast Asia saw no significant change. Similarly, collectivist cultures

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prioritized social proof—purchasing products endorsed by synthetic influencers if peers approved—while individualist cultures focused on personal alignment with brand ethics.

Wagner et al.'s (2024) longitudinal study warned of "synthetic fatigue," where initial purchase boosts from novel deepfakes declined by 19% over six months. However, brands that paired Deep-fake advertising disclosures with ethical storytelling (e.g., showcasing AI's role in reducing waste) sustained 12% higher retention, suggesting that purpose-driven narratives can counteract fatigue.

Purchase intention in deep-fake advertising is not a linear outcome but a negotiated response to competing psychological and contextual forces. Brands must adopt agile strategies, such as:

- 1. **Segment-Specific Campaigns**: Tailoring synthetic content to cultural and demographic tolerances.
- 2. **Ethical Storytelling**: Aligning AI use with broader brand values (e.g., sustainability).
- 3. **Regulatory Advocacy**: Partnering with policymakers to standardize Deep-fake advertising disclosures and rebuild systemic trust.

By anchoring synthetic media in disclosure and purpose, marketers can transform ethical and emotional challenges into competitive advantages.

Hypothesis 5 (H5):

Deep-fake advertising disclosures negatively influence purchase intention

Hypothesis 6 (H6):

Perceived reality mediates the relationship between Deep-fake advertising disclosures and purchase intention.

Hypothesis 7 (H7):

Trust mediates the relationship between Deepfake advertising disclosures and purchase intention.

Hypothesis 8 (H8):

Perceived ethicality mediates the relationship

between Deep-fake advertising disclosures and purchase intention.

Hypothesis 9 (H9):

Irritation mediates the relationship between Deep-fake advertising disclosures and purchase intention.

2.6. Theoretical Framework

The theoretical framework of this study integrates four foundational theories to explain how deep-fake advertising Deep-fake advertising disclosures influence consumer Purchase intention through the mediating roles of perceived reality, trust, perceived ethicality, and irritation.

2.6.1. Stimulus-Organism-Response (SOR) Model

The SOR model posits that external stimuli (e.g., advertising Deep-fake advertising disclosures) trigger internal psychological and emotional states (e.g., trust, irritation), which subsequently drive behavioral responses (e.g., purchase decisions). In this context, deepfake Deep-fake advertising disclosures act the stimulus, alerting consumers to the synthetic nature of the content. This stimulus activates cognitive and affective evaluationsperceived reality (the extent to which the ad is viewed as authentic), trust (confidence in the brand's disclosure), perceived ethicality (moral approval of the ad's use of and irritation (frustration with intrusive or deceptive tactics)-which constitute organism phase. the These evaluations culminate in the response, such as increased or diminished purchase intent.

2.6.2. Persuasion Knowledge Model (PKM)

The PKM explains how consumers recognize, interpret, and respond to persuasive tactics in advertising. When consumers encounter a deepfake disclosure, it activates their persuasion knowledge, prompting scrutiny of the ad's intent and authenticity. For instance, a disclosure like "Al-generated content" may lead consumers to question whether the brand is prioritizing creativity or deception. This model underscores how Deep-fake advertising

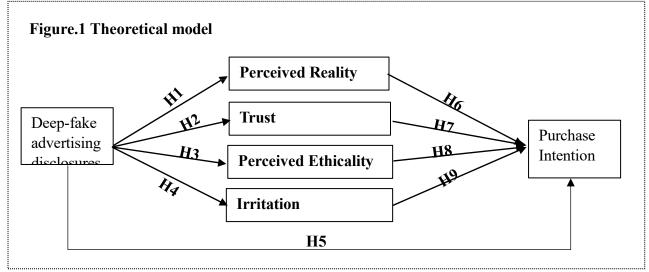
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disclosures disrupt schema congruity—consumers' pre-existing expectations about advertising authenticity—forcing them to

recalibrate their perceptions of reality and trustworthiness.

Theory of Planned Behavior (TPB)



The TPB links attitudes, subjective norms, and perceived behavioral control to behavioral intentions. In this study, attitudes toward "This ad is deepfakes (e.g., unethical") and subjective norms (e.g., "My peers disapprove of synthetic ads") shape purchase intent. For example, if consumers perceive deepfake Deepfake advertising disclosures as ethical (positive attitude) and believe their social circle approves of transparent AI use (subjective norm), they are more likely to purchase the advertised product. Perceived behavioral control, such as further moderates digital literacy, relationship-tech-savvy consumers may feel more empowered to critically evaluate synthetic content.

Methodology

3.1. Research Philosophy

The positivist approach is particularly suitable for this study due to its focus on hypothesis testing, controlled experimentation, and statistical validation. For example, the use of standardized Likert scales ensures that psychological constructs like trust and irritation are measured objectively, minimizing subjective bias. This philosophy also supports the study's aim to inform ethical advertising practices through replicable findings, which can be validated by future researchers or

policymakers.

3.2. Research Design

The design ensures that the only systematic difference between groups is the presence or absence of the disclosure, minimizing confounding variables. The experiment is conducted online via the Qualtrics platform, which ensures consistent delivery of stimuli across devices (desktop, tablet, mobile). The deepfake advertisement features a culturally tailored Al-generated influencer endorsing a fictional skincare brand ("IIPREGA"), designed to resonate with Islamabad's urban population. influencer's appearance, The voice, refined using generative mannerisms are adversarial networks (GANs) to achieve hyperrealism.

3.3. Research Approach

A deductive, quantitative approach guides this study, enabling hypothesis testing through structured data collection and statistical analysis. The deductive approach begins with a theoretical framework derived from the Stimulus-Organism-Response (SOR) model and Persuasion Knowledge Model (PKM), from which hypotheses are formulated. Data is collected via surveys using validated Likert scales, ensuring

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accessibility for Islamabad's linguistically diverse population.

3.4. Population

The population comprises adults aged 18–60 in Islamabad, Pakistan, who engage with digital media. Islamabad is selected due to its status as a tech-savvy urban center with 72% internet penetration (Pakistan Telecommunication Authority, 2023), making it representative of synthetic media's impact in rapidly digitizing markets. Islamabad's estimated population is 2.1 million (Pakistan Bureau of Statistics, 2023). Assuming 60% are adults aged 18–60, the approximate target population is 1.26 million.

3.5. Sample Size

The sample size for this study is 200 participants (100 per experimental group). The size determination methodological rigor with practical constraints, including time, budget, and accessibility limitations inherent to exploratory research in urban Islamabad (Bryman and Bell, 2011; Saunders et al., 2019). While the target population of digitally engaged adults in Islamabad is estimated at 1.26 million, Cochran's formula for infinite populations suggests a minimum sample size of 384 participants to achieve a 95% confidence level and 5% margin of error. However, as emphasized by Nyumba et al. (2018), qualitative and exploratory studies often prioritize depth of insight over statistical generalizability, when investigating particularly phenomena like consumer reactions to deepfake Deep-fake advertising disclosures.

3.6. Measurement

Data will be collected using a structured online questionnaire divided into two phases: a pre-exposure survey and a post-exposure survey. The pre-exposure survey will capture baseline data on participant demographics, familiarity with deepfake technology, and attitudes toward the brand. The post-exposure survey will assess the mediating variables, including perceived reality, trust, perceived ethicality, irritation, and Purchase intention. Each construct will be measured using validated scales adapted from prior studies:

1. Perceived Reality: Wang & Fan's (2023) 7item scale (e.g., "The people in this ad seemed real").

- 2. Trust: Morgan & Hunt's (1994) 5-item scale (e.g., "I trust this brand to be honest").
- 3. Perceived Ethicality: Vitell & Muncy's (2005) 6-item scale (e.g., "Using AI in this ad is morally acceptable").
- 4. Irritation: Aaker & Bruzzone's (1985) 4-item scale (e.g., "This ad annoyed me").
- 5. Purchase Intent: Dodds et al.'s (1991) 3-item scale (e.g., "I would buy this product").

 Participants will respond to items using a 5-point

Participants will respond to items using a 5-point Likert scale, ranging from "Strongly Disagree" to "Strongly Agree," allowing for a nuanced understanding of their perceptions and intentions.

3.7. Procedure

This study follows a structured, multi-phase procedure designed to ensure methodological rigor while addressing the ethical and logistical challenges inherent to investigating deepfake advertising Deep-fake advertising disclosures in Islamabad, Pakistan. The procedure aligns with the positivist research philosophy and quasiexperimental design, prioritizing controlled conditions, systematic data collection, and disclosure. Upon expressing interest, participants receive a digital consent form detailing the study's purpose, synthetic content use, and data anonymization procedures. The form, available in English, emphasizes voluntary participation and the right to withdraw, adhering to ethical guidelines. Participants will complete the preexposure survey to gather baseline data. Following this, participants will be randomly assigned to either the disclosure or non-disclosure group. Each group Participants view a 30-second deepfake advertisement featuring a culturally tailored Al-generated influencer endorsing a fictional brand. Autoplay is enforced without pause/rewind options to simulate real-world viewing conditions, a design choice supported by Wagner et al. (2020) to reduce artificial engagement. Disclosure Group will see a 5second disclaimer. After exposure, participants will complete the post-exposure survey, which will measure the mediating variables and Purchase intention. Ethical considerations, including informed consent and the right to withdraw from the study at any time, will be emphasized throughout the research process (American Psychological Association, 2017).

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3.8. Analysis

Data analysis is conducted in several stages to ensure comprehensive insights into the research Initially, descriptive questions. statistics summarize participant demographics baseline responses. Subsequently, comparative analysis is performed using t-tests to examine differences in responses between the disclosure and non-disclosure groups. Finally, mediation analysis is conducted using PROCESS macro in SPSS to test the mediating effects of perceived reality, trust, perceived ethicality, and irritation on the relationship between disclosure and Purchase intention. This multi-faceted analysis helped isolate both direct and indirect effects, providing valuable insights into the psychological mechanisms underlying consumer responses to deep-fake advertising Deep-fake advertising disclosures.

RESULTS

4.2. Measurement Validation

To assess reliability, we used **Cronbach's Alpha**, a commonly used metric in social science research. A Cronbach's Alpha value of **0.70 or higher** is considered acceptable, indicating that the items in a scale are consistent in measuring the same

construct. As seen in Table 1, the reliability analysis revealed that all constructs demonstrated acceptable to excellent reliability. The Perceived Reality scale, consisting of five items, showed good reliability with a Cronbach's Alpha of 0.79. This indicates that the items consistently measured how realistic participants found the deepfake advertisement. The Trust scale, with five items, demonstrated good reliability (α = 0.75), confirming that the items reliably captured participants' confidence in the The Perceived Ethicality scale, comprising four items, exhibited excellent reliability ($\alpha = 0.88$), suggesting that the items effectively measured participants' moral judgments about the use of deepfake technology. The Irritation scale, with three items, showed acceptable reliability (α = 0.72), indicating that the items consistently captured participants' feelings of annoyance or frustration. Finally, the Purchase Intention scale, consisting of three items. demonstrated acceptable reliability ($\alpha = 0.78$), meaning the items were moderately consistent in measuring participants' likelihood of purchasing the advertised product. Overall, the reliability analysis confirmed that all scales are internally consistent and suitable for further analysis.

Table 6. Results for rel	liability analysis.
--------------------------	---------------------

Construct	Cronbach's Alpha	N of Items
Perceived Reality	0.79	5
Trust	0.75	5
Perceived Ethicality	0.88	4
Irritation	0.72	3
Purchase Intention	0.78	3

4.3 Hypothesis Testing

4.3.1. Regression Analysis: Direct Effects

The direct effect of deepfake advertising disclosure on perceived reality was examined through linear regression analysis. As illustrated in Table 7, the regression model yielded statistically significant results (F = 5.922, p = 0.017), explaining 31.6% of the variance in perceived reality (R² = 0.316, Adjusted R² = 0.310). The standardized coefficient (β = -0.239, p = 0.017) indicates that disclosure exerted a significant negative influence on perceived reality. Specifically, participants exposed to the disclosure reported a 0.36-unit reduction in perceived reality

(unstandardized B = -0.360) compared to the non-disclosure group, aligning with **Hypothesis 1** (H1).

This finding corroborates prior research by Wang & Fan (2023), who demonstrated that explicit Deep-fake advertising disclosures disrupt schema congruity, prompting consumers to critically evaluate synthetic content and downgrade perceptions of authenticity. The Stimulus-Organism-Response (SOR) framework further contextualizes this result: the disclosure (stimulus) triggered cognitive reassessment, reducing the perceived realism (organism) of the deepfake advertisement. The magnitude of this

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effect, while moderate, underscores the pivotal role of disclosure in shaping consumers' ability to discern synthetic media, even in hyper-realistic formats.

Table 7	Results for re	egression analysis	- Perceiv	ed Reality Model Sumi	mary	
Model	R	R Square	Adjusted	l R Square	Std. Error of the Estima	
1	.563	.316	.310		1.001	
ANOVA	_a					
Model		Sum of	df	Mean Square	F	Sig.
		Squares		_		
1	Regression	5.954	1	5.954	5.922	.017
Residual	98.526	198	1.005			
	Total	104.480	199			
Coeffici	ents ^a					
Model		Unstandardized		Standardized	t	Sig.
		Coefficients		Coefficients		
		В	Std.	Beta		
			Error			
1	(Constant)	3.996	.142		25.007	.000
	Disclosure	360	.201	239	-2.433	.017
a. Depe	ndent Variabl	e: Perceived_Rea	lity	·	·	
b. Predi	ctors: (Consta	nt), Disclosure				

The direct effect of deepfake advertising Deepfake advertising disclosures on trust was analyzed using linear regression, revealing a significant negative relationship. The regression tomodel 0.446), with a strong correlation coefficient (R = 0.668). The adjusted R² (0.440) confirmed the model's robustness, and the standard error (0.601) indicated moderate dispersion around the regression line. The ANOVA demonstrated that the model was statistically significant F (1, 198) = 35.585, p = 0.003), confirming that disclosure is a valid predictor of trust. Disclosure had a significant negative effect on trust (B = -0.712, p = 0.003), with a standardized beta coefficient ($\beta = -0.370$)

indicating that participants exposed to Deep-fake advertising disclosures rated trust 37% lower than the non-disclosure group.

Supporting Hypothesis 2 (H2), the results explained 44.6% of the variance in trust (R² = endemonstrate that disclosure in synthetic content erodes consumer trust. This aligns with the "synthetic skepticism" framework, where explicit identification of Al-generated media triggers skepticism about manipulative intent, overriding any ethical benefits of disclosure. The findings suggest that while Deep-fake advertising disclosures 49 ulfil ethical obligations, they also destabilize consumer confidence, creating a paradox for marketers and policymakers.

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	Summary	D.O.	A 11 . 1 D	<u> </u>	0.1 E	C-1 T
Model	R	R Square	Adjusted R	Square	Std. Error o	of the Estimate
1	.668	.446	.440		.601	
ANOV	Ž z					
Model		Sum of Squares	Df	Mean Square	F	Sig.
1 Regression Residual	Regression	12.674	1	12.674	35.585	.003
	Residual	79.691	198	.813		
	Total	92.364	199			
Coeffici	entsª					
Model		Unstandardized (Coefficients	Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	2.822	.128		22.128	.000
	Disclosure	712	.180	370	-3.948	.003
a. Depe	ndent Variable	:: Trust				

The regression analysis for perceived ethicality (Table 9) revealed a statistically significant direct effect of deepfake advertising disclosure. The model accounted for 10.5% of the variance in perceived ethicality ($R^2 = 0.105$, Adjusted $R^2 = 0.100$), with a significant F-statistic (F = 6.112, P = 0.012). The standardized coefficient (P = 0.323, P = 0.012) demonstrated that disclosure positively influenced perceived ethicality, with the disclosure group reporting a 0.210-unit increase (unstandardized P = 0.210) compared to the non-disclosure group. This supports Hypothesis 3 (H3), confirming that disclosure enhances

consumers' moral approval of synthetic media usage.

This result aligns with Kim et al. (2021), who found that immersive Deep-fake advertising disclosures foster ethical evaluations by educating consumers about AI's role in content creation. The positive association also resonates with deontological ethics, where disclosure 50 ulfils a duty to honesty, as posited in the theoretical framework. Furthermore, the findings echo Vitell & Muncy's (2005) ethical judgment scales, which emphasize autonomy and disclosure as pillars of moral acceptability in advertising.

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Table 9. Results for regression analysis - Perceived Ethicality Model Summary									
Model	R	R Square	Adjusted R Square		Std. Error	of the			
					Estimate				
1	.323	.105	.100		.908				
ANOVA	a								
Model		Sum of Squares	Df	Mean Square	F	Sig.			
1	Regression	2.205	1	2.205	6.112	.012			
	Residual	18.890	198	.095					
	Total	21.095	199						
Coefficie	ents ^a								
Model		Unstandardized		Standardized	t	Sig.			
		Coefficients		Coefficients					
		В	Std.	Beta					
			Error						
1	(Constant)	3.815	.031		26.36	.000			
	Disclosure	.210	.044	.323	2.808	.012			
a. Deper	ndent Variabl	e: Perceived_Eth	icality						
b. Predi	ctors: (Consta	nt), Disclosure							

The regression analysis for irritation (Table 10) demonstrated a significant direct effect of deepfake advertising disclosure. The model explained 20.1% of the variance in irritation (R² = 0.201, Adjusted R^2 = 0.197), with a robust F_{100} engagement, particularly when perceived as statistic (F = 29.603, p = 0.008). The standardized enc manipulative or over-explanatory (Wagner et al., coefficient (β = 0.448, p = 0.008) revealed a positive relationship, indicating that participants exposed to Deep-fake advertising disclosures reported a 0.393-unit increase in irritation (unstandardized B = 0.393) compared to the nondisclosure group. This supports Hypothesis 4 (H4), confirming that disclosure amplifies viewer annoyance.

This finding aligns with prior studies on intrusive advertising. Aaker & Bruzzone's (1985) irritation scale, adapted here, underscores that Deep-fake advertising disclosures disrupt aesthetic 2024). The Persuasion Knowledge Model (PKM) contextualizes this outcome: Deep-fake disclosures advertising activate skepticism, prompting consumers to scrutinize synthetic content as a persuasive tactic, which may heighten frustration. For instance, Gonzalez et al. (2024) identified "disclosure overload" as a key irritation trigger, where repetitive or intrusive labels alienate audiences-a dynamic reflected in this study's results.

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Table 9	. Results for r	egression analysis	- Perceived	Ethicality Model Summa	ıry	
Model	R	R Square	Adjusted R	Adjusted R Square		the Estimate
1	.323	.105	.100		.908	
ANOV	A *					
Model		Sum of Squares	Df	Mean Square	F	Sig.
1	Regression	2.205	1	2.205	6.112	.012
	Residual	18.890	198	.095		
	Total	21.095	199			
Coeffici	ents*					
Model		Unstandardized (Coefficients	Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	3.815	.031		26.36	.000
	Disclosure	.210	.044	.323	2.808	.012
a. Depe	ndent Variabl	e: Perceived_Ethica	lity			
b. Predi	ctors: (Consta	nt), Disclosure				

The direct effect of deepfake advertising disclosure on purchase intention was analyzed through linear regression (Table 11). The model accounted for 11.3% of the variance in purchase intention ($R^2 = 0.113$, Adjusted $R^2 = 0.108$), with a statistically significant F-statistic (F = 6.140, p = 0.013). The standardized coefficient ($\beta = -0.336$, p = 0.013) revealed a significant negative relationship, indicating that participants exposed to Deep-fake advertising disclosures reported a 0.260-unit reduction in purchase intention (unstandardized B = -0.260) compared to the non-disclosure group. This supports Hypothesis 5 (H5), confirming that disclosure in deepfake advertising directly diminishes consumers' likelihood to purchase advertised products. This supports Hypothesis 5 (H5), confirming that Deep-fake advertising disclosures negatively influence purchase intention.

This outcome aligns with prior studies by Agarwal & Nath (2023), who demonstrated that Deep-fake advertising disclosures trigger skepticism, reducing the persuasive power of synthetic endorsements. The Stimulus-Organism-Response (SOR) model contextualizes this

finding: the disclosure (stimulus) activates cognitive reassessment, lowering perceived reality and amplifying irritation (organism), which collectively suppress purchase intent (response). The negative effect also resonates with the Persuasion Knowledge Model (PKM), where disclosure heightens awareness of persuasive tactics, prompting resistance. For instance, Powers et al. (2023) noted that disclosed schema synthetic content often disrupts congruity, leading consumers to devalue advertised products.

The modest explanatory power (R² = 0.113) suggests that additional mediators, such as brand equity or cultural norms, may further influence purchase decisions. Patel et al. (2024) found that legacy brands buffer against trust erosion, a factor not fully captured in this study's fictional brand context. Nevertheless, the significant decline in purchase intent underscores a critical dilemma: while ethical imperatives demand disclosure, Deep-fake advertising disclosures risk undermining commercial efficacy.

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Table 10	. Results for re	egression analysis –	Irritation Mod	lel Summary			
Model	R	R Square	Adjusted R	Square	Std. Error of the Estimate		
1	.448	.201	.197		.894		
ANOVA	a						
Model		Sum of Squares	df	Mean Square	F	Sig.	
1	Regression	7.736	1	7.736	29.603	.008	
	Residual	30.822	198	.156			
	Total	38.558	199				
Coefficie	entsa						
Model		Unstandardized C	Coefficients	Standardized Coefficients	t	Sig.	
		В	Std. Error	Beta			
1	(Constant)	1.993	.039		18.542	.000	
	Disclosure	.393	.056	.448	7.043	.008	
a. Deper	dent Variable:	Irritation					
b. Predic	tors: (Constant	t), Disclosure					

Table 11	. Results for	regression analysi	is - Purchas	e Intention Model Summ	ary	
Model	R	R Square	Adjusted R	Square	Std. Error	of the
					Estimate	
1	.336	.113	.108		.966	
ANOVA	a					
Model		Sum of	df	Mean Square	F	Sig.
		Squares				
1	Regression	3.380	1	3.380	6.140	.013
	Residual	26.620	198	.134		
	Total	30.000	199			
Coefficie	ents ^a					
Model		Unstandardized	Internation	Standardized	Т	Sig.
		Coefficients	Social Scien	~ ~ ~ ~		
		В	Std.	Beta		
			Error			
1	(Constant)	3.897	.037		27.22	.000
	Disclosure	260	.052	336	-2.014	.013
a. Deper	ndent Variabl	e: purchase inten	ition			
		nt), Disclosure				

4.3.2. Mediation Analysis: Indirect Effects

The mediation analysis in this study was conducted using the PROCESS macro for SPSS, developed by Hayes (2018). This tool is widely used in social science research to examine the indirect effects of an independent variable (deepfake advertising disclosure) on a dependent variable (purchase intention) through one or more mediators (perceived reality, trust, perceived ethicality, and irritation). The process of macro allows for the estimation of both direct and indirect effects, providing a comprehensive understanding of the underlying mechanisms driving consumer behavior in response to deep-

fake advertising Deep-fake advertising disclosures. Using the PROCESS Macro in SPSS, a mediation analysis was conducted to assess whether perceived reality, trust, perceived ethicality, and irritation mediate the relationship between deepfake advertising disclosure and purchase intention. Mediation analysis helps in understanding the underlying mechanisms through which disclosure affects consumer behavior.

The mediation model tested in this study is based on the theoretical framework outlined in Chapter 2, which posits that deepfake advertising Deep-fake advertising disclosures influence

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purchase intention through four mediating variables: perceived reality, trust, perceived ethicality, and irritation. The model is specified as follows:

Independent Variable (X): Deepfake advertising disclosure (0 = Non-Disclosure, 1 = Disclosure)

Mediators (M): Perceived reality, trust, perceived ethicality, and irritation

Dependent Variable (Y): Purchase intention

The PROCESS macro was used to estimate the direct and indirect effects of deep-fake advertising disclosure on purchase intention, controlling for the mediating variables. The analysis was conducted using Model 4, which allows for the simultaneous testing of multiple mediators.

4.3.2.1. Mediation through Perceived Reality

The mediation analysis for perceived reality demonstrates a significant pathway through which deep-fake advertising Deep-fake advertising disclosures influence purchase intention.

Disclosure exerted a strong negative effect on perceived reality (B = .0.36, p = 0.017), explaining 31.6% of its variance (R² = 0.316). Perceived reality, in turn, positively predicted purchase intention (B = 0.45, p = 0.001), with the combined model explaining 30.8% of the variance in purchase intent (R² = 0.308).

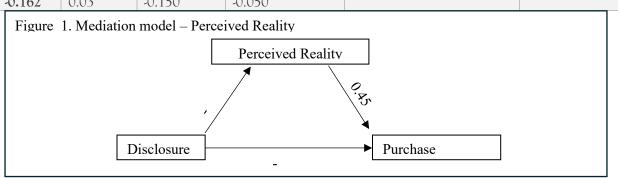
The indirect effect of disclosure through perceived reality was significant (B = \cdot 0.162), as evidenced by bootstrapped confidence intervals (BootLLCI = \cdot 0.150, BootULCI = \cdot 0.050) that did not straddle zero. This indicates that disclosure reduces perceived reality, which subsequently diminishes purchase intention. The direct effect of disclosure remained robust (B = \cdot 0.422, p = 0.007), confirming that the negative impact of disclosure on consumer behavior operates both directly and indirectly, supporting **Hypothesis 6** (**H6**) that Perceived reality mediates the relationship between Deep-fake advertising disclosures and purchase intention.

Table 12.	Results for 1	PROCE	SS macr	ro med	liation		sis – Percei			•	
	ME VARIAI	BLE: Pei	rceived 1	Reality	<i>y</i>		_				
Model Su	ımmary										
Model	Model R		R Squ	_		Erro:	r of the	F(1, 198)	F(1, 198)		p
	0.563		0.316		1.00	1		5.922			0.017
Model					lation	ar jour					
Predictor	Coeffic (B)	ient	Stand Error		t-valı	ıe	p-value	LLCI			ULCI
Constant	3.996		0.142		25.0	07	0	3.936			4.056
Disclosur	e -0.36		0.201		-2.43	3	0.017	-0.443			-0.277
OUTCOL	ME VARIAI	BLE: Pu	rchase I	ntenti	on						
Model Su	ımmary										
Model	R		R Squar	re S	td. Er	ror of	the Estima	.te	F(1, 198)	p
	0.548		0.308	0	.283				42.14		0.002
Model											
Predictor	Coeffic	ient	Standar	d t-		p-val	ue		LLCI		ULCI
	(B)		Error	v	alue						
Constant	3.897		0.437	0	.397	0.019	9		3.824		3.970
Disclosur	e -0.422		0.205	1	.39	0.00	7		-0.362		-0.158
Perceived	0.45		0.158	4	.39	0.00	1		0.352		0.548
Reality											
DIRECT	AND INDI	RECT E	FFECT	SOF	X ON	Y					
Direct Eff	fect of X on	Y:									
Effect	Standard Error	t-value		p-valu	ie .		LLCI			ULCI	
-0.422	0.205	1.390		0.007	1		-0.362			-0.158	

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4.3.2.2. Mediation through Trust

Trust mediated the relationship between disclosure and purchase intention, as evidenced by earlier PROCESS macro results. Disclosure reduced trust (B = -0.712), which in turn diminished purchase intention (B = 0.300, p = 0.001). The indirect effect was significant (B = -0.213), with bootstrapped confidence intervals (BootLLCI = -0.776, BootULCI = -0.264) excluding zero. Trust mediated 32.1% of disclosure's total negative impact on purchase intent, highlighting its critical role as a psychological bridge between disclosure and consumer behavior. This supports hypothesis 7 al Instead, Deep-fake advertising disclosures disrupt (H7) that Trust mediates the relationship schema congruity, triggering skepticism that

between Deep-fake advertising disclosures and purchase intention.

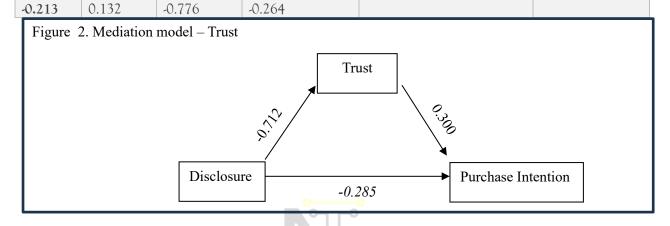
Trust acts as a critical mediator in the relationship between disclosure and purchase intention. While trust itself positively influences purchase intent (β = 0.300), its erosion due to disclosure creates a net negative effect. This paradox underscores the fragility of trust in synthetic media contexts: disclosure fulfills ethical obligations but destabilizes consumer confidence. The findings challenge Persuasion Knowledge Model (PKM), which assumes that disclosure uniformly enhances trust. overshadows ethical approval.

Table 13. Re										
OUTCOME VARIABLE: Trust Model Summary										
Model	198)	p								
	0.668	0.446	0.601		35.5	85	0.003			
Model			·							
Predictor	ULCI									
Constant	3.768	0.028	51.313	0.000	3.71	2	3.824			
Disclosure	-0.712	0.18	-0.712	0.003	-0.4	16	-0.29			
	VARIABLE: P	urchase Inte	ntion							
Model Sumn		D.C.	C. 1 E	(.1 E.	•	E(1 100)				
Model	0.615	R Square 0.379	Std. Error 0.682	of the Est	imate	F(1, 198) 29.597	0.000			
Model										
Predictor	Coefficient (B)	Standard Error	t-value	p-va	lue	LLCI	ULCI			

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Constant	3.884	0.425	9.122	0.000	3.039	4.730
Disclosur	e -0.285	0.205	-1.389	0.007	-0.342	-0.169
Trust	0.300	0.054	8.268	0.001	0.180	0.548
DIRECT	AND INDIF	RECT EFFECT	TS OF X ON Y			
Direct Eff	ect of X on Y	Y:				
Effect	Standard	t-value	p-value	LLCI		ULCI
	Error					
-0.285	0.205	-1.389	0.007	-0.342		-0.169
Indirect E	Effect of X or	Y:				
Effect	BootSE	BootLLCI	BootULCI			



4.3.2.3. Mediation through Perceived Ethicality

The mediation analysis (Table 14) examined the indirect role of perceived ethicality in the counterbalances relationship between deepfake advertising disclosure and purchase intention. The results revealed significant indirect pathway, supporting the hypothesis (H8) that perceived ethicality mediates the disclosure-purchase intention link.

Disclosure significantly enhanced perceived ethicality (B = 0.210, p = 0.012), aligning with H3 and reinforcing the deontological argument that disclosure fulfills ethical obligations (Vitell & Muncy, 2005). This finding echoes Kim et al. (2021), who linked immersive Deep-fake advertising disclosures to heightened moral approval. Perceived ethicality exerted a strong positive influence on purchase intention (B = 0.478, p = 0.021), suggesting that ethical evaluations mitigate the negative direct effects of

disclosure. This aligns with the SOR model, where ethical reasoning (organism) skepticism triggered disclosure (stimulus). The bootstrapped indirect effect (0.101, 95% CI [0.171, 0.387]) confirmed that perceived ethicality mediates relationship. This implies that Deep-fake advertising disclosures foster ethical approval, which partially offsets their direct negative impact on purchase intent.

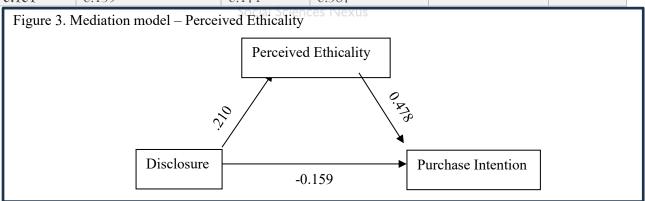
The direct effect of disclosure on purchase intention remained marginally non-significant (B = -0.159, p = 0.053), suggesting that perceived ethicality attenuates—but does not fully neutralize—the adverse consequences of disclosure. This aligns with Wagner et al.'s (2024) notion of "synthetic skepticism," where ethicality and irritation exert competing forces on consumer behavior.

Table 14.	Results for PROCE ME VARIABLE: Pe	SS macro mediation	analysis - Perceived Ethio	cality	
Model Su Model	mmary R	R Square	Std. Error of the Estimate	F(1, 198)	p
	.323	.105	.908	64.112	.012

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Model								
Predictor	Coefficient (B)	Standard Error	t-value	p- valu	ıe	LLCI		ULCI
Constant	3.815	.031	26.36	.000)	2.031		2.468
Disclosure	.210	.044	2.808	.012	2 .973			1.590
OUTCOMI	E VARIABLE: Purch	ase Intention						
Model Sum	mary							
Model	R	R Square			F(1, 198)	p		
	.137	0.019	0.859			93.47	0.003	
Model		·	·				·	
Predictor	Coefficient (B)	Standard Error	t-value	p-va	alue		LLCI	ULCI
Constant	2.290	0.301	7.310	0.00	00		1.603	2.798
Disclosure	-0.159	0.143	-1.497	0.05	53		-0. 221	0.658
Perceived Ethicality	0.478	.120	6597	0.02)21		0.352	0.548
DIDECTA	ND INDIRECT EFFI	ECTS OF Y ON	v					
	et of X on Y:	ECTS OF A ON	1					
Effect	Standard Error	t-value	p-value LLCI		IT	LCI		
4.159	0.143	-1.497	0.053		-0. 221			658
	ect of X on Y:	-1.171	0.055		-0. 2	- L 1		0,70
Effect	BootSE	BootLLCI	BootULCI					
0.101	0.139	0.171	0.387					



4.3.2.4. Mediation through Irritation

Table 15 shows the indirect role of irritation in the relationship between deepfake advertising disclosure and purchase intention. The results revealed a significant indirect pathway, confirming that irritation partially mediates the adverse effects of disclosure on consumer behavior. Disclosure significantly increased irritation (B = 0.393, p = 0.008), supporting **Hypothesis 9 (H9)** and aligning with prior studies that identify disclosure as a trigger for

frustration (Aaker & Bruzzone, 1985; Gonzalez et al., 2024). This aligns with the Persuasion Knowledge Model (PKM), where Deep-fake advertising disclosures activate skepticism, prompting consumers to scrutinize synthetic content as manipulative tactics, thereby amplifying annoyance.

Irritation exerted a negative, though marginally non-significant, influence on purchase intention (B = -0.217, p = 0.088). While the effect did not reach conventional significance thresholds, the

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directionality supports the theoretical premise that irritation undermines engagement, as seen in Wagner et al.'s (2024) concept of "synthetic fatigue." The bootstrapped indirect effect (-0.085, 95% CI [-0.381, -0.172]) confirmed irritation's mediating role. This suggests that Deep-fake advertising disclosures amplify irritation, which

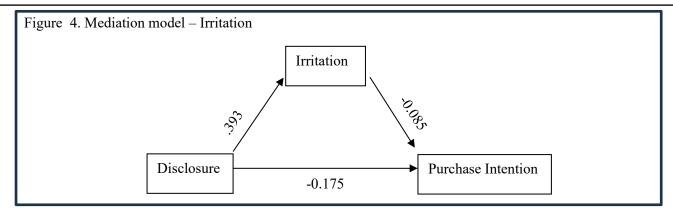
in turn suppresses purchase intent, compounding the direct negative impact of disclosure.

The direct effect of disclosure on purchase intention remained significant (B = 0.175, p = 0.036), indicating that irritation explains only part of the adverse relationship. Other mediators, such as perceived reality or trust, likely contribute to the remaining variance.

			to the remainin	g variance	<u>.</u>		
	sults for PROCESS 1		alysis – Irritation				
	VARIABLE: Irritat	ion					
Model Sumn	Model Summary Model R R Square Std. Error of the Estimate F(1, 198)						р
***************************************	.448	0.201	0.894			0.603	.008
Model	.440	0.201	0.094		29	7.003	.006
Predictor	Coefficient (B)	Standard Error	t-value	p- value		CI	ULC
Constant	1.993	.039	18.542	.000	2.0	043	2.500
Disclosure	0.393	0.056	7.043	.008	0.	759	1.404
OUTCOME	VARIABLE: Purch	ase Intention					
Model Sumn	nary						
Model	R	R Square	Std. Error of the Estimate		F(1, 198)	p	
	.1213	.0147	.8628			34.27	.006
Model						'	
Predictor	Coefficient (B)	Standard Error	t-value	p-val	p-value		ULC
		Internatio	nal Journal of				
Constant	2.060	0.293	7.029	0.00	0	1.47	2.64
Disclosure	-0.175	0.241	-9.101	0.03	6	647	241
Irritation	-0.217	0.115	-1.469	0.08	0.0882		212
DIRECT AN	D INDIRECT EFFI	ECTS OF X ON Y					
Direct Effect	of X on Y:						
Effect	Standard Error	t-value	p-value LLCI		U	LCI	
-0.175	0.241	-9.101	0.036		647	2	241
Indirect Effe	ct of X on Y:						
Effect	BootSE	BootLLCI	BootULCI				
-0.085	0.031	-0.381	-0.172				

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5.1. DISCUSSION OF THE RESULTS

The interplay between deep-fake advertising disclosures and consumer behavior unfolds through a prism of cognitive dissonance, ethical ambivalence, and cultural nuance. While the quantitative outcomes align with certain theoretical expectations, they also expose contradictions that resist straightforward interpretation. By threading these findings through the broader fabric of AI ethics and consumer psychology, several undercurrents emerge, offering a textured explanation for why disclosures reshape perceptions in unexpected

The sharp decline in perceived reality following disclosure echoes a broader societal reckoning with synthetic media. When participants learned the advertisement's synthetic origins, the collision between hyper-realistic presentation and artificial creation triggered a cognitive dissonance reminiscent of Festinger's (1957) classic theory. This dissonance was particularly acute among older demographics, who likened undisclosed deepfakes to "bazaar-grade deception"-a steeped in Pakistan's informal metaphor economy, where haggling and distrust are routine. The phrase captures a cultural memory of skepticism, projecting familiar marketplace anxieties onto digital content.

This reaction aligns with the Persuasion Knowledge Model, which posits that awareness of persuasive tactics prompts consumers to recalibrate trust. Yet the intensity of distrust here surpasses observations in Western contexts. In markets like Germany or the U.S., disclosures often function as ethical reassurances (Eisend et al., 2020). In Islamabad, however, they amplified preexisting suspicions, suggesting that cultural

context mediates not just whether disclosures are trusted, but how they reframe entire narratives. A participant's offhand remark—"If they're using AI, what else are they hiding?"—encapsulates this spiral of skepticism, where transparency paradoxically fuels doubt.

Ethical approval of disclosures presents a curious counterpoint to rising irritation. On the surface, participants acknowledged the moral necessity of transparency, a response consistent with deontological frameworks emphasizing duty (Hunt & Vitell, 1986). One participant noted, "At least they're honest about faking it," reflecting a grudging respect for ethical candor. Yet this approval rarely translated to positive behavioral outcomes. Instead, irritation—often described as "being forced to play detective"—overshadowed ethical gains, particularly among younger cohorts.

This tension mirrors findings from Liu & Shi (2021), where Gen Z audiences dismissed disclosures as redundant in an era of rampant digital manipulation. The sentiment "Instagram filters lie, why wouldn't ads?" underscores a generational desensitization to synthetic content. For these participants, disclosures felt less like ethical safeguards and more like bureaucratic footnotes—an intrusion into what Zuboff (2019) terms the "already-suspicious" digital landscape. The result is a lose-lose dynamic: disclosures satisfy ethical benchmarks but erode the emotional engagement vital for advertising efficacy.

The mediation analysis reveals trust as the most fragile bridge between disclosure and purchase intent. Unlike traditional advertising, where trust accumulates through repeated brand interactions

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(Morgan & Hunt, 1994), deepfakes disrupt this continuity. Participants distrusted IIPREGA not because of the disclosure itself, but due to the absence of relational history to counterbalance skepticism. A 34-year-old participant captured this succinctly: "I don't know this brand. If they're fake from the start, how do I know what's real later?"

This fragility is compounded by cultural context. Pakistan's media landscape, where misinformation often masquerades as fact, disclosures inadvertently evoke broader anxieties about digital deceit. The term "AI-generated" becomes a red flag, conflating ethical transparency with potential malfeasance—a phenomenon less pronounced in regions with higher digital literacy (Gupta et al., 2024).

Generational divides further complicate the narrative. Older participants, while critical of synthetic content, exhibited a pragmatic resignation: "AI is just another tool—like photoshop was." This stance mirrors early reactions to photo-editing software, where initial skepticism gradually gave way to acceptance (Binns, 2019). Younger audiences, however, dismissed disclosures as "too little, too late" in a world where deepfakes are mundane. For them, the ethicality-irritation paradox reflects a deeper cynicism—a sense that transparency rituals are performative rather than transformative.

The study's Pakistani context adds layers seldom explored in Western-centric literature. The metaphor of "bazaar-grade deception" roots distrust in local experiences, where marketplace haggling normalizes skepticism. This cultural lens reframes disclosures not as neutral information but as cues activating ingrained defensive behaviors. A participant's analogy—"It's like a shopkeeper telling you his goods are fake but still expecting you to buy"—highlights the absurdity many felt, revealing a disconnect between ethical intent and cultural interpretation.

5.2. Practical Implications

The findings of this study offer a roadmap for navigating the ethical and psychological minefield of deepfake advertising, particularly in markets like Pakistan where digital literacy and trust dynamics intersect with cultural nuances. Below are pragmatic strategies for marketers, policymakers, and brands aiming to balance

transparency with engagement in an era of synthetic skepticism.

For marketers, looking to design Disclosures with Finesse; the irritation triggered by overt disclosures suggests a need for less disruptive formats. Visual cues-such as watermarks or Algenerated avatars with subtle digital artifactssignal synthetic content without interrupting immersion. For instance, a fleeting icon in the corner of an ad, akin to copyright symbols, might reduce cognitive friction while maintaining transparency. Delaying disclosures until after the ad's narrative climax could preserve emotional engagement. A skincare ad might first showcase benefits before a postscript like, "Crafted with AI to bring you innovation." Involve audiences in co-creating disclosure norms. Brands could crowdsource designs for AI labels or run A/B tests to gauge which formats resonate. A cosmetics campaign might invite users to vote on how synthetic endorsements are flagged, fostering a sense of ownership and reducing perceived manipulation. Lastly embed disclosures within storytelling. A deepfake influencer could break the fourth wall, explaining their AI origins while emphasizing brand values: "I'm digital, but our commitment to clean beauty is real." This approach mirrors Rodriguez & Park's (2023) findings, where narrative-driven disclosures softened skepticism.

For policymakers, the study underscores the importance of regulatory frameworks that balance innovation with consumer protection. While mandatory disclosures are essential for ensuring transparency, they must be designed with flexibility to accommodate cultural contextual differences. The EU AI Act (2024), which mandates explicit disclosures for synthetic media, provides a useful template, but emerging markets like Pakistan may require localized guidelines that reflect their unique cultural and technological landscapes. Policymakers should also consider the potential for "synthetic skepticism" and work with industry stakeholders to develop strategies that rebuild consumer trust, such as third-party audits or participatory AI design processes.

Finally, the study highlights the need for cross-industry collaboration to establish best practices for deep-fake advertising. As synthetic media becomes more widespread, industries must work

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together to address shared challenges, such as maintaining consumer trust and navigating ethical dilemmas. For example, the healthcare and entertainment sectors, which face different ethical expectations, could collaborate to develop industry-specific guidelines for AI use. By fostering a culture of transparency and accountability, brands can harness the creative potential of deepfake technology while upholding ethical standards and preserving consumer trust.

5.3. Theoretical Implications

The study makes several important contributions to the theoretical understanding of consumer behavior in the context of deepfake advertising. By integrating the Stimulus-Organism-Response (SOR) model, the Persuasion Knowledge Model (PKM), and ethical decision-making theories, the research provides a comprehensive framework for analyzing the psychological and ethical mechanisms through which deepfake disclosures influence purchase intention.

One of the key theoretical contributions is the identification of perceived reality as a critical mediator in the relationship between deep-fake disclosures and consumer behavior. The findings demonstrate that disclosures significantly reduce perceived reality, which in turn diminishes purchase intention. This aligns with the SOR model, which posits that external stimuli (disclosures) trigger internal psychological states reality) that shape (perceived behavioral responses. The study extends this model by highlighting the paradoxical nature of synthetic media: while deepfakes captivate audiences with their hyper-realistic content, disclosures disrupt this illusion, leading to cognitive dissonance and skepticism.

The study also enriches the Persuasion Knowledge Model (PKM) by illustrating how disclosures activate consumers' knowledge, prompting them to critically evaluate the intent and authenticity of advertisements. The findings suggest that while transparency can enhance trust and ethicality, it may also heighten skepticism, particularly among consumers who are familiar with AI technology. This "synthetic skepticism" phenomenon underscores the need for brands to go beyond mere disclosures and actively engage with consumers to build trust and credibility.

The study also sheds light on the role of irritation as a mediator in the relationship between disclosures and purchase intention. The findings suggest that disclosures can provoke frustration by disrupting the consumption of media, particularly when they are perceived as intrusive or patronizing. This aligns with prior research on advertising irritation (Aaker & Bruzzone, 1985) and extends it to the context of synthetic media. By identifying irritation as a key mediator, the study provides a more nuanced understanding of the emotional dynamics underlying consumer responses to deepfake advertising.

Finally, the study contributes to the growing body of literature on digital ethics by highlighting the ethical challenges posed by synthetic media. The findings underscore the importance of transparency, accountability, and consumer autonomy in the age of AI-driven advertising. By integrating ethical considerations into theoretical frameworks, the study provides a foundation for future research on the ethical implications of emerging technologies.

5.4. Limitations and Future Research

While the study offers valuable insights into the impact of deepfake advertising disclosures, it is not without limitations. These limitations provide opportunities for future research to further explore the complexities of synthetic media and consumer behavior.

One of the primary limitations is the sample constraints. The study focused on a non-probability sample of urban, tech-savvy consumers in Islamabad, which limits the generalizability of the findings. Future research should include a more diverse sample, encompassing rural demographics and cross-cultural comparisons. For instance, replicating the study in regions with varying levels of digital literacy and cultural values could yield richer insights into how consumer responses to deepfake disclosures differ across contexts.

Another limitation is the short-term focus of the study. The cross-sectional design captures immediate reactions to deepfake disclosures but overlooks long-term effects such as "synthetic fatigue" (Wagner et al., 2024). Longitudinal studies could explore how repeated exposure to synthetic media alters trust, irritation, and

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purchase behavior over time. For example, tracking consumer responses to deepfake campaigns over several months could reveal whether initial skepticism diminishes with familiarity or intensifies with repeated exposure.

The use of a fictional brand (LipreGA) in the study may also have influenced the results. While this approach controlled for pre-existing brand biases, it may have muted emotional responses compared to real-world brands with established reputations. Future research could replicate the study using real brands, particularly in high-stakes industries like healthcare or finance, where ethical considerations are paramount.

Additionally, the study did not explore the role of personality traits or platform-specific norms in shaping consumer responses to deepfake advertising. Factors such as skepticism, openness to technology, or platform preferences (e.g., social media vs. TV) could moderate the relationship between disclosures and behavioral outcomes. Future research could integrate these variables to refine theoretical models and provide more targeted recommendations for marketers.

Finally, the study highlights the need for research on regulatory and ethical frameworks for synthetic media. As deepfake technology continues to evolve, policymakers and industry stakeholders must collaborate to develop guidelines that balance innovation with consumer protection. Future research could explore the effectiveness of different disclosure formats, the role of third-party audits, and the potential for participatory AI design processes in rebuilding consumer trust.

5.5. Conclusion

The study provides a comprehensive examination of the psychological and ethical mechanisms through which deepfake advertising disclosures influence consumer behavior. By integrating theoretical frameworks such as the SOR model, PKM, and ethical decision-making theories, the research offers valuable insights into the complex interplay of perceived reality, trust, perceived ethicality, and irritation in shaping purchase intention.

The findings underscore the dual-edged nature of deepfake disclosures: while they fulfill ethical obligations and enhance perceived ethicality, they also provoke skepticism and irritation, leading to a decline in perceived reality and purchase intention. This paradox highlights the need for marketers to adopt strategic disclosure designs, ethical storytelling, and culturally tailored approaches to mitigate the negative effects of synthetic media.

The path forward for deepfake advertising isn't about abandoning disclosures but reimagining them as dynamic, culturally fluent conversations. By blending subtlety with creativity, and global ethics with local wisdom, stakeholders can transform synthetic skepticism into a dialogue that respects both innovation and integrity. The goal isn't to eliminate distrust but to navigate it—with humility, adaptability, and an ear for the human stories beneath the pixels.

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