

The Abuse of AI in the Entertainment Industry: Deepfakes

Artificial Intelligence (AI) has increasingly become a part of the entertainment industry, enhancing visual effects, automating content creation, and even generating human-like voices and performances. While these advancements hold incredible potential for creativity, they also come with significant ethical dilemmas. One such ethical issue is the misuse of AI in creating deep fakes, a technology that can manipulate or fabricate audiovisual content in ways that are often undetectable to the human eye. The advent of deep-fake technology has raised concerns about privacy, consent, and the potential for malicious use, especially in the entertainment industry, where celebrities' likenesses and voices are highly valuable. This essay will explore the abuse of deepfakes in the entertainment industry, focusing on the unauthorized manipulation of celebrity likenesses in the form of deepfake videos, and the ethical and legal challenges posed by this technology.

Deepfakes are generated using deep learning techniques, particularly Generative Adversarial Networks (GANs), which use two neural networks to create highly realistic synthetic media. GANs can superimpose a person's face on another individual or replicate a person's voice, making it difficult for viewers to discern whether the content is real or fabricated. Initially, deep-fake technology was used as a creative tool for producing visual effects, such as in film and television, where CGI could be used to digitally de-age actors or create complex visual sequences. However, the rapid democratization of AI tools has made it increasingly accessible to the public. Now, virtually anyone with the necessary software can create deep-fake videos, often with malicious intent.

The entertainment industry was initially excited about the potential of deep-fake technology, which could allow for remarkable innovations, such as resurrecting deceased actors for new projects or bringing fictional characters to life with greater realism. However, as technology evolved, so did its potential for abuse. For instance, deep-fake videos of public figures, including celebrities, politicians, and influencers, began circulating online without their consent. These videos were often manipulated to create embarrassing or harmful content, exploiting the likenesses of famous individuals for sensational purposes.

A notable example of the misuse of deepfakes in the entertainment industry occurred when the likeness of actress Scarlett Johansson was used without her permission in a deepfake adult video. While deepfakes have been used in various forms of malicious media, this particular case sparked widespread outrage because it involved a highly public figure, and it violated both Johansson's privacy and her right to control her own image. The deepfake video, which superimposed her face onto an explicit video, was quickly taken down, but not before it had garnered significant attention and raised important questions about the ethical implications of AI in entertainment.

Neida Guzman
Professor Anna Devarakonda
ITAI 2372
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This case illustrates one of the primary concerns surrounding deepfakes: the unauthorized use of an individual's likeness. Celebrities, in particular, are highly vulnerable to this type of exploitation because their faces and voices are valuable intellectual properties. In Johansson's case, the deepfake not only harmed her personally but also undermined the integrity of the media she appeared in, suggesting that anything could be manipulated and no one, not even the most well-known celebrities, could be trusted.

In addition to adult content, deepfake technology has also been used to alter movie scenes or create entirely new performances. A prime example is the use of deep-fake technology to "resurrect" deceased actors. In the 2016 film *Rogue One: A Star Wars Story*, the likeness of the late Peter Cushing was digitally recreated to reprise his role as Grand Moff Tarkin. While this use of deep-fake technology was authorized, it still raised ethical questions about consent and the rights of the deceased. If a deceased actor's likeness can be used in a film without their consent, does this open the door for further exploitation? Should the deceased have a say in how their image is used in future projects?

The misuse of deepfake technology has far-reaching consequences for various stakeholders, including actors, film studios, content consumers, and the broader entertainment industry. Celebrities, whose likenesses are often in the public domain, are especially vulnerable to the unauthorized use of deep-fake technology. In the case of Scarlett Johansson, the unauthorized creation of a deep-fake video led to both personal harm and reputational damage. Deepfakes can create false narratives that distort public perception of an individual. This could also extend to harm in the form of defamation, as celebrities' reputations may be tarnished by manipulated videos or fabricated statements.

On the other side of the equation, film studios might be tempted to use deep-fake technology as a cost-saving measure or for creative convenience. For example, studios could use AI to recreate actors' likenesses without needing to hire the actor again or without having to pay for rights to their image. However, while this might be an effective business strategy in the short term, it raises significant ethical concerns. Using AI to create performances without an actor's consent not only violates intellectual property rights but also challenges the relationship between actors and the studios that employ them.

For audiences, deepfakes present a unique challenge. Consumers of entertainment media are often unaware of the manipulation taking place behind the scenes. As deep-fake technology becomes more sophisticated, it becomes increasingly difficult to distinguish between real and fake content. This erosion of trust poses a risk to the integrity of the media industry. If consumers begin to lose faith in the authenticity of what they see on screen, it could have long-term consequences for the entertainment industry's credibility and profitability.

Legally, the use of deepfake technology in entertainment raises numerous issues related to intellectual property rights, consent, and privacy. Actors typically own the rights to their likenesses through contracts, but the unauthorized use of their image via AI manipulations might circumvent these contracts, leading to legal disputes. Furthermore, the issue of consent is

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murky—can an actor's image be used posthumously or without their explicit approval in a way that benefits a studio or production company?

In response to the increasing use of deepfakes in entertainment, industry stakeholders have begun to push for regulation and develop tools to detect AI-manipulated content. Governments and legal bodies have taken steps to address the growing issue of malicious deepfakes. For instance, in 2018, the U.S. introduced the *Malicious Deep Fake Prohibition Act*, which made it illegal to create or distribute deepfake videos with the intent to harm or deceive. Other countries have followed suit with similar legislation seeking to curb the harmful effects of this technology.

Moreover, tech companies that develop AI tools have started to take responsibility for the misuse of their technology. For example, some companies have created deepfake detection tools to help identify manipulated content. These tools use machine learning to spot inconsistencies in videos, such as unnatural facial movements or irregular lighting, that may indicate AI manipulation. Additionally, tech giants like Facebook and Google have launched awareness campaigns to educate both creators and consumers about the risks associated with deep fakes.

Film studios and production companies are also beginning to implement ethical guidelines and develop contracts that explicitly address the use of AI in their projects. Some studios, for instance, are ensuring that actors' consent is obtained before their likenesses are digitized or manipulated. However, as the use of deepfake technology continues to evolve, these measures may need to be continuously updated to address new ethical and legal challenges.

The rise of deep-fake technology in the entertainment industry has introduced complex ethical and legal challenges. While deepfakes have the potential to revolutionize how films and TV shows are made, they also present serious risks, particularly when used without consent or for malicious purposes. The case of Scarlett Johansson's unauthorized deepfake video illustrates the dangers of this technology and highlights the vulnerability of public figures to exploitation.

Moving forward, it is essential for the entertainment industry, lawmakers, and tech companies to collaborate in establishing clear ethical guidelines and regulations to govern the use of AI in content creation. Stronger legal frameworks are needed to protect actors' rights and ensure that their likenesses are not manipulated without their consent. Furthermore, public awareness campaigns are crucial in educating consumers about the existence of deepfakes and their potential consequences.

Ultimately, while deepfake technology offers tremendous creative potential, it must be used responsibly. By striking a balance between innovation and ethics, the entertainment industry can harness the power of AI without compromising the rights of individuals or the trust of audiences.

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