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Ethical And Social Implications Of Generative AI And Deepfakes

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Abstract

Generative AI and deepfakes have changed the way material is made, which raises serious moral and social issues. These technologies can help with creative new ideas and make things easier, but they can also lead to problems like false information, identity theft, and a loss of faith in digital media. Deepfakes, in particular, can be used to make fake information that looks authentic, which is bad for people's privacy, political stability, and public discourse. There are moral problems with permission, authorship, and accountability, especially when AI-generated outputs look and sound much like real human speech. The fact that these technologies are so widely available puts pressure on legal systems and calls for strong responses in the areas of regulation, education, and technology. This abstract talks about the two-sided effects of generative AI and stresses the need for ethical rules, media literacy, and cooperation between different sectors to make sure it is used responsibly. As the border between real and fake gets less clear, people need to be careful with these new technologies to protect honesty, trust, and human dignity in the digital era.

Keywords: Generative AI, Deepfakes, Ethical Implications

INTRODUCTION

Generative AI and deepfake technology have changed the way we communicate, make media, and interact online in the last few years. Generative AI is a type of algorithm that can make text, images, audio, and video that look and sound a lot like things made by people. Tools like ChatGPT, DALL E, and others are changing the way people make and use content. At the same time, deepfakes synthetic media made with deep learning techniques, especially GANs (Generative Adversarial Networks) have gotten a lot of attention for their capacity to create or overlay lifelike photographs and videos of individuals, frequently without their permission. These technologies offer a lot of potential in areas like entertainment, education, and healthcare, but they also raise a lot of difficult moral and societal issues. People can use deepfakes for political propaganda, harassment, identity theft, and spreading false information, which makes people less trusting of each other and divides society. Generative AI makes it much harder to detect the difference between human and machine creation, which raises problems regarding originality, intellectual property, and authorship. There are several moral issues to think about: Who is in charge of content made by AI? In a time when digital identities may be quickly changed, how can society make sure that privacy and consent are respected? Also, the societal effects include worries about how truthful the media is, how trust in the public is fading, and how AI could make biases and discrimination worse. This introduction gives an overview of the moral and social effects of generative AI and deepfakes.

It stresses how important it is to have rules, public awareness, and ethical guidelines to lower risks and encourage responsible innovation in the digital age.

OBJECTIVES

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- 1. To analyze the ethical challenges posed by the development and use of generative AI and deepfake technologies.
- 2. To evaluate the social impact of deepfakes and generative AI on trust, privacy, and digital media integrity.

HYPOTHESIS

1. **Null Hypothesis** (H_0): There is no significant ethical concern associated with the use of generative AI and deepfake technologies.

Alternate Hypothesis (H₁): There are significant ethical concerns associated with the use of generative AI and deepfake technologies.

2. **Null Hypothesis** (H_0): Generative AI and deepfake technologies do not have a significant impact on trust, privacy, and digital media integrity.

Alternate Hypothesis (H₁): Generative AI and deepfake technologies have a significant impact on trust, privacy, and digital media integrity.

REVIEW OF LITERATURE

- 1. Chesney and Citron (2019) In their important piece "Deepfakes and the New Disinformation War," they talk about the emerging threat of deepfakes. The authors say that deepfake technology is dangerous for democracy, national security, and public confidence since it lets people make hyper-realistic but fake audio-visual content. They point out that deepfakes might be used as weapons in politics, international affairs, and personal attacks, which would add to the "post-truth" period. The report stresses how important it is to fight disinformation and protect the integrity of information in a digital world that is changing quickly. It calls for legal changes, new technology for finding false information, and working together to govern.¹
- 2. Westerlund (2019), In "The Emergence of Deepfake Technology: A Review," the author gives a thorough look at the technology behind deepfakes, how they are used, and what they mean for society. The paper talks about how improvements in artificial intelligence, especially generative adversarial networks (GANs), have made it possible to make fake material that looks quite real. Westerlund talks about both the good things that deepfakes may be used for (like entertainment and making things easier to access) and the bad things they can be used for (like spreading false information, committing fraud, and breaking privacy). The report says that to lower risks, we need to use ways that involve people from many fields, such as new technology, the law, and ethics. It is a basic source for learning about how deepfake technology has changed and what effects it has had.²
- 3. Floridi and Cowls (2019), They suggest a basic ethical approach for directing the growth and use of artificial intelligence in their essay "A Unified Framework of Five Principles for AI in Society." There are five main concepts that make up the framework: beneficence, non-maleficence, autonomy, justice, and explicability. These rules are meant to make sure that AI technologies, such generative AI and deepfakes, are good for people while causing as little harm as possible and holding people accountable. The writers say that we need to find a middle ground between ethical thinking and practical government. Their work is an important step towards dealing with the effects of AI on society and encouraging ethical innovation.³
- 4. Kietzmann and Pitt (2020) Look at the growing power of deepfakes by describing them and explaining the AI and ML methods that make them possible, like autoencoders and GANs (papers.ssrn.com). They divide deepfakes into four groups: photo, audio, video, and lip-sync. They look at both the new ways they might be used and the big problems they can cause, like privacy infringement, spreading false information, and damage to reputation (colab.ws). The authors suggest the R.E.A.L. structure to assist organisations respond: Record original content to make it possible to verify it, Use detection technologies to find deepfakes early, Push for legal protection, and Build trust through open communication (papers.ssrn.com). This all-encompassing perspective sees deepfakes as both a chance and

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a danger.4

5. Waddell (2018) "When Seeing Is No Longer Believing" looks into the underlying epistemological problem that deepfakes pose. He says that bogus audio and video made by AI can seriously damage people's belief in digital and media evidence cyber.gc.ca+10securitymagazine.com+10researchgate.net+10. Waddell says that as deepfakes get better, traditional ways of checking them, like looking at them or simple authentication, won't be enough anymore. This might lead to less truth in the media and the law. To fight this menace, he calls for better technology to find it, better laws, and better media literacy. His work shows how important it is to keep credibility and accountability in a time when seeing doesn't always mean believing.⁵

RESEARCH METHODOLOGY

1. Research Design:

A descriptive and exploratory research design will be used to analyze the ethical and social dimensions of generative AI and deepfakes. The descriptive element will capture the current landscape of AI and deepfake usage, while the exploratory aspect will investigate potential risks and future implications.

2. Research Approach:

A mixed-methods approach will be adopted, combining both qualitative and quantitative methods to gain a holistic understanding of the issue.

3. Data Collection Methods:

- Primary Data:
- Surveys and Questionnaires: Distributed among digital media users, IT professionals, educators, and legal experts to gather perceptions on the ethical and social consequences of generative AI and deepfakes.
- Interviews: In-depth interviews with subject matter experts in AI ethics, cybersecurity, law, and media studies.
- Secondary Data:
- Academic journals, policy papers, government and NGO reports, and articles from trusted technology and ethics platforms.

4. Sampling Technique:

A purposive sampling technique will be used to select experts and professionals in AI, law, media, and ethics. For general surveys, stratified random sampling may be used to ensure a diverse respondent base across age groups and professions.

5. Tools for Data Analysis:

- Quantitative Data:
- Statistical tools (e.g., SPSS or Excel) to analyze survey results.
- Descriptive statistics, chi-square tests, and correlation analysis may be used to test hypotheses.

Qualitative Data:

• Thematic analysis for interviews and open-ended survey responses to extract patterns and ethical themes.

6. Ethical Considerations:

- Ensuring informed consent from participants
- Maintaining data confidentiality and anonymity
- Avoiding biased or leading questions
- Proper citation of secondary sources

VARIABLES

1. Independent Variables (IV):

These are factors that influence or lead to ethical and social implications.

• Use of Generative AI Tools (e.g., ChatGPT, DALL·E, Midjourney)

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- Availability of Deepfake Technology
- Frequency of Al-generated Media Exposure
- Awareness of AI Ethics and Regulations
- Purpose of Use (creative, malicious, educational, etc.)

2. Dependent Variables (DV):

These are the outcomes affected by the independent variables.

- Ethical Concerns
- Privacy violation
- Consent and ownership issues
- Accountability of content
- Social Implications
- Misinformation and trust erosion
- Public perception and fear
- Impact on media integrity and democracy

3. Control Variables (CV):

These are variables that should be held constant to avoid bias.

- Age group of respondents
- Educational background
- Profession (e.g., tech user, educator, policymaker)
- Level of digital literacy

4. Intervening (Mediating) Variables:

These explain the relationship between IV and DV.

- Media Literacy
- Government Regulation and Legal Frameworks
- AI Detection Technologies
- Organizational Policies on AI Use

Here is a suitable heading and explanation for the data collection section of your research methodology, incorporating the sample size and Google Form usage:

DATA COLLECTION METHOD

For the purpose of this study on the *Ethical and Social Implications of Generative AI and Deepfakes*, **primary data** will be collected through a structured questionnaire designed using **Google Forms**. This method allows for efficient, wide-reaching, and contactless data collection, making it especially suitable for diverse participant groups.

The sample size for this study will consist of **75 respondents**, selected using a **non-probability purposive** sampling technique to ensure that participants have basic awareness or exposure to AI technologies, social media, or digital content creation. The target group may include students, educators, professionals in the IT and media industries, and legal experts.

The Google Form will include a combination of:

- Demographic questions (age, gender, education, profession),
- Likert scale items to gauge opinions on ethical and social impacts,
- Multiple-choice questions on awareness and use of generative AI and deepfakes,
- Open-ended questions for collecting qualitative insights.

The data collected will be kept confidential and used solely for academic research. Responses will be analyzed using statistical tools to draw meaningful conclusions aligned with the research objectives and hypotheses.

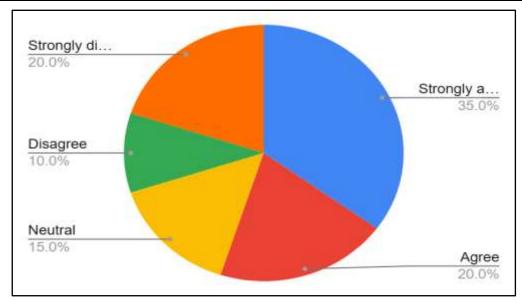
This method ensures ease of participation, real-time data collection, and accessibility across locations, enabling a comprehensive understanding of public perceptions and concerns surrounding the topic.

DATA ANALYSIS AND INTERPRETATION

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How much do you agree with the following statement: "Deepfakes and AI-generated content reduce public trust in online media and news sources."		
Strongly agree	35	
Agree	20	
Neutral	15	
Disagree	10	
Strongly disagree	20	



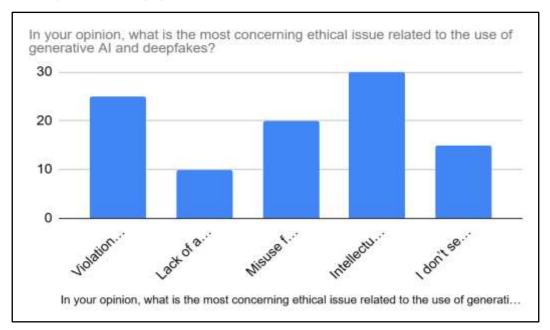
Interpretation: The survey results indicate that a significant portion of respondents perceive deepfakes and Al-generated content as a threat to public trust in online media.

Out of 100 participants, 35% strongly agree and 20% agree with the statement, totaling 55% who believe trust is being eroded. Meanwhile, 15% remain neutral, indicating uncertainty or limited awareness. Interestingly, 30% of respondents disagree or strongly disagree, suggesting a notable portion does not see deepfakes as a serious trust issue. This mixed response highlights both the growing concern over misinformation and the need for greater public education on the risks of synthetic media.

In your opinion, what is the most concerning ethical issue related to the use of generative AI and deepfakes?		
Violation of privacy and consent	25	
Lack of accountability for creators/users	10	
Misuse for fake news or propaganda	20	
Intellectual property infringement	30	
I don't see any major ethical issue	15	

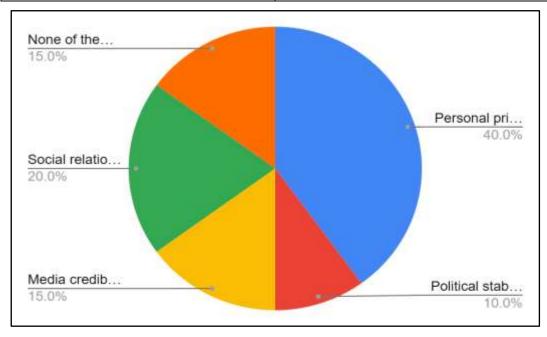
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Interpretation: The data reveals that **intellectual property infringement** is perceived as the most concerning ethical issue related to generative AI and deepfakes, with 30 out of 100 respondents (30%) identifying it as their top concern. This is followed closely by **violation of privacy and consent** (25%) and **misuse for fake news or propaganda** (20%), indicating strong public awareness of the broader risks these technologies pose. Only 10% cited **lack of accountability**, while 15% of respondents expressed **no major ethical concerns**, suggesting a knowledge gap or low perceived threat. Overall, the results emphasize the need for stronger legal protections and ethical standards.

Which of the following do you believe is most at risk due to widespread use of deepfakes		
and generative AI?		
Personal privacy and digital identity	40	
Political stability and public opinion	10	
Media credibility and journalistic integrity	15	
Social relationships and interpersonal trust	20	
None of the above	15	



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Interpretation: The survey findings show that personal privacy and digital identity are viewed as the most vulnerable aspects due to the widespread use of deepfakes and generative AI, with 40% of respondents selecting this option. This indicates strong public concern over the misuse of individual likenesses and personal data. Social relationships and interpersonal trust were the next most affected (20%), followed by media credibility (15%) and political stability (10%). Interestingly, 15% of participants chose "None of the above," suggesting either limited awareness or disagreement with the listed risks. Overall, the results highlight privacy as a primary ethical concern in AI discourse.

CHALLENGES

1. Misinformation and Erosion of Trust

The dissemination of false information is one of the biggest problems that generative AI and deepfakes cause. Deepfakes can be used to make fake films or audio of famous people that seem and sound true. This can lead to phoney news that can change people's minds and mess with the democratic process. As more and more people see AI-generated content, it gets harder to tell what's real and what's phoney. This makes a lot of people sceptical and distrustful. People may start to doubt the truth of every digital content they consume, which hurts the credibility of the media, government, and even personal relationships.

2. Privacy and Consent Violations

Generative AI and deepfakes routinely use people's photographs, sounds, or likenesses without permission, which is a big privacy and consent issue. For instance, deepfakes have been used to make explicit content without the person's permission or to pretend to be someone else without their knowledge. These kinds of activities hurt people's dignity and can hurt their reputation, emotions, and mental health. Also, the fact that it's easy to make and share this kind of content makes it more likely that someone will be a victim or be blackmailed. This difficulty shows how important it is to have stronger digital rights protections, stricter rules, and clearer guidelines for getting permission to use AI-generated content.

3. Legal and Regulatory Gaps

Existing laws are having a hard time keeping up with how quickly generative AI and deepfake technologies are changing. A lot of countries don't have clear legislation about AI-generated false information, deepfake misuse, or who is responsible for synthetic content. This lack of laws makes it hard to enforce since bad people can take advantage of gaps in the law. Legal interpretations need to be updated for things like intellectual property rights, defamation, digital identity theft, and cybersecurity.

It is important to create comprehensive and globally comparable legal frameworks to control the development, dissemination, and misuse of Al-generated content while protecting freedom of expression and innovation.

4. Ethical Accountability and Creator Responsibility

Figuring out who is morally and legally liable for content made by AI is not easy. Many times, the people who make generative models or deepfake tools say they are not responsible for how people utilise their tools. This spreading of responsibilities lets bad content spread without any checks. Also, people who utilise AI tools to trick or hurt other people often stay nameless. Not only the consumers, but also the developers, platform providers, and regulators are responsible for ethical behaviour. To deal with this rising moral problem, we need to set up ethical rules of conduct, clear algorithms, and ways for users to be responsible.

5. Impact on Employment and Creativity

Generative AI can make writing, art, music, and design that is as creative as a human's, which could put creative professions out of work. People are worried about losing their jobs and the value of human creativity as AI-generated material becomes more and more like work done by people. Deepfakes also make it tougher to identify if digital creations are real and original, which makes it harder to safeguard intellectual property. AI can help people work together, but if it isn't controlled, it could make it harder for actual artists and creators to get work. It's important to find a balance between automation and human agency so that technology doesn't take away from human expression and jobs.

REMEDIES AVAILABLE

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1. Strengthening Legal and Regulatory Frameworks

Governments must introduce and update laws to address deepfake misuse and unethical use of generative AI. Legal remedies can include:

- Criminalizing non-consensual deepfakes (e.g., fake pornography, impersonation).
- Enforcing stricter data protection laws.
- Introducing AI-specific regulations around transparency, accountability, and digital identity theft.
- Supporting international cooperation for cross-border regulation.

Laws like the Digital Personal Data Protection Act (India, 2023) or the EU AI Act are examples of steps toward legal safeguards.

2. Promoting Ethical Guidelines and Industry Standards

Tech companies and AI developers should adopt self-regulatory frameworks to guide the ethical development and deployment of AI. Remedies include:

- Embedding ethical principles (e.g., fairness, transparency, non-maleficence) in AI development.
- Labelling Al-generated content clearly ("Al-generated" tags).
- Implementing internal review boards or ethics committees within tech firms.
- Open-sourcing detection tools and providing transparency reports.

Organizations like IEEE and OECD have issued AI ethics guidelines that can be adopted globally.

3. Advancing Deepfake Detection Technologies

Technology can be both the problem and the solution. Remedies here include:

- Development and deployment of deepfake detection algorithms (using watermarking, forensic analysis, and machine learning tools).
- Embedding invisible digital signatures in original media for verification.
- Collaboration between tech companies and academic institutions to improve detection reliability.

Platforms like Facebook, Google, and Microsoft are already funding such initiatives.

4. Enhancing Media and Digital Literacy

Public awareness and education are vital remedies to reduce the societal impact of misinformation and manipulated content. Strategies include:

- Incorporating media literacy into school and college curricula.
- Running awareness campaigns about recognizing deepfakes and AI-generated misinformation.
- Training journalists, educators, and influencers to verify digital content before dissemination.
- Encouraging responsible digital behavior and critical thinking among social media users.

This empowers citizens to be more discerning and less susceptible to manipulation.

5. Platform Responsibility and Content Moderation

Social media and content-sharing platforms must play an active role in monitoring and removing harmful Al-generated content. Remedies include:

- Strict community guidelines and reporting mechanisms for deepfake content.
- AI-powered content moderation systems to detect and flag suspicious media.
- Penalties for users who misuse AI tools or spread harmful deepfakes.
- Collaboration with fact-checking organizations to verify content before it goes viral.

Platforms like YouTube, Twitter (X), and TikTok have already begun rolling out deepfake policies and moderation systems.

CONCLUSION

The arrival of generative AI and deepfake technologies is a major step forward in digital innovation, opening up new possibilities in areas like education, entertainment, and marketing. But these new technologies also come with a lot of moral and societal problems that need to be dealt with right now and with care. Deepfakes are especially dangerous because they let anyone change audio and video to make plausible but misleading representations. This can lead to incorrect information, privacy violations, identity theft, and a lack of trust in digital media.

We need to rethink our legal and moral systems because of the moral problems that come up with

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permission, authorship, accountability, and transparency. Laws that are already in place often don't cover the problems that Al-generated content creates, which means that bad actors can take advantage of the time it takes for new rules to be made. Also, the societal effects are quite serious and long-lasting, including people losing faith in institutions, victims suffering psychological injury, and democratic debate being weakened. To deal with these problems, we need to take a multi-faceted approach that includes strong legal changes, creating ethical standards for using AI, funding tools to find deepfakes, and teaching people how to read and write. To make sure that innovation is governed by moral principles and protections, tech businesses, governments, teachers, and civic society must all work together. In conclusion, generative AI and deepfakes are signs of progress in machine learning and making content, but using them without limits could destroy the truth and trust that hold society together. Responsible innovation, which is based on ethics and rules, is important for getting the most out of modern technologies while lowering their hazards.

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