

An Analysis of Legal Gaps and Enforcement Challenges in Addressing AI-Generated Deepfake Sexual Offences in India

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Abstract: Deepfake technology facilitated by artificial intelligence has evolved quickly, raising stern ethical, lawful, and law enforcement concerns. Deepfake technology, while usable for a whole range of justifiable purposes, is being illegally used to generate sexually explicit unwilling content. It is a critical analysis of the expanding threat of AI-driven deepfakes sexual crime in India through loopholes available in the legal framework and its enforcement problems. The study talks about the inadequacies of existing laws such as the Information Technology Act, 2000, the Indian Penal Code, 1860. The study **focuses** on critically examining the emergence of deepfake AI-based sexual offenses in India, the loopholes in the prevailing legal framework, and the law enforcement challenges arising out of these offenses. The research method adopted here is **Empirical research**. The sampling technique was conducted in a convenience sampling technique and the research sample size is 200 samples. The statistical tools employed are Clustered Bar Graphs. The key **findings** are Law enforcement agencies are hampered by the challenge of attributing and prosecuting deepfake creators due to the advancement of the technology and the lack of clear legal definitions. The study **concludes** that India has to adopt an all-around legal and technological plan to combat sexual crimes enabled through deepfakes effectively, ensuring better protection to the victims as well as tougher deterrence policies.

Keywords: Sexual offences, Cyber offences, Deepfake technology, AI, Privacy

