

# AI Voice Impersonation for Fraudulent Purposes

## Summary

This document demonstrates potential real-world execution of voice fraud using unrestricted access to AI voice models. It details a methodical approach, from target selection to the societal impact the AI-synthesized deceptive audio may have, showcasing how these advanced technologies could be exploited for malicious purposes.

While OpenAI does not currently provide a feature for cloning real-world individual voices using audio samples, the possibility of such technology emerging in the future cannot be discounted. Anticipating this potential development, it's crucial to proactively address the associated security concerns and prepare for the ethical challenges that would accompany its misuse.

## Selection of Target

The malicious actor would likely prioritize targets based on potential gain. This could include wealthy individuals known to have family members, such as children, whose safety they would prioritize, making them susceptible to extortion schemes.

Another prime target could be individuals with administrative or privileged access to sensitive systems or information. This includes IT administrators, executives with high-level clearance, or employees in critical infrastructure sectors.

Beyond personal extortion, malicious actors might target public figures like CEOs or politicians. Impersonating a CEO could manipulate stock prices with false corporate information, while mimicking a politician might spread political misinformation. These scenarios demonstrate the wider implications of voice cloning misuse, extending from individual harm to broader societal and economic impacts.

## Profiling and Identifying Weak Points:

The actor would conduct a thorough analysis of the target's public and digital footprint, gathering information on family members, their routines, and their relationships. This helps in crafting a more convincing and targeted misuse scenario.

In the case of targets with administrative access, the actor would research their role, the systems they have access to, and the protocols they follow.

## Social Engineering Considerations:

The actor would likely use elements of social engineering, leveraging the emotional weight of a supposed threat to a family member or the urgency of a fabricated security issue to compel the target to act quickly and without their usual caution.

The selection process might also involve analyzing the target's susceptibility to social engineering tactics, such as their history of responding to unsolicited communications or their level of awareness about digital security threats.

## Data Collection:

The malicious actor would systematically collect a wide range of audio samples of the target's voice. This includes sourcing from publicly available materials such as interviews, speeches, and appearances on media platforms.

They would also scour social media channels, podcasts, and any public-facing digital content where the target might have spoken.

## Training

With sufficient recordings of the target's voice, an AI voice model can be trained, allowing it to learn the nuances of the target's voice, including pitch, tone, accent, and speech idiosyncrasies. AI models exist today that merely need less than a minute of the target's voice to give a passable impression.

While OpenAI does not currently have a customizable AI voice model, it is possible one could be offered in the near future to compete with other existing products such as Descript's Overdub or Adobe's Project VoCo.

Once trained, the actor can then input any text content to synthesize new speech audio that sounds like the target. This could include phrases or sentences the target never actually spoke, yet the AI-generated audio would make it appear as if they did.

# Impact

The actor would choose dissemination channels based on the intended impact and target audience. For personal extortion or fraud, direct communication channels like phone calls or private messaging could be used.

In cases aiming for broader public impact, such as influencing opinions or causing panic, the actor might opt for social media platforms, online forums, or even fake news websites to ensure wide reach.

Utilizing the viral nature of social media, the actor could create fake accounts or use bot networks to amplify the distribution of the falsified audio.

For a more focused impact, the actor could use email or messaging apps to send the audio directly to specific individuals or groups, possibly impersonating a trustworthy source.

## Individual Impact:

On a personal level, the use of falsified audio for extortion or fraud could lead to financial loss, emotional distress, or reputation damage for the targeted individual.

In cases of personal attacks, the victim might face social or professional consequences based on the false information spread through the AI-generated voice.

## Societal Impact:

If used to spread misinformation or manipulate public opinion, the impact could be far-reaching, affecting political processes, stock markets, or public safety.

The distribution of false information in sensitive scenarios, like fake emergency announcements, could lead to widespread panic or misallocation of public resources.

## Digital Trust:

Perhaps the most insidious long-term effect would be the erosion of trust in digital communication and media. As people become aware of the potential for voice forgery, they may become skeptical of audio recordings, impacting legitimate news, judicial evidence, and personal communications.