

"AI Detect" for Consumer and Enterprise Apps and Devices

1. Abstract

In the rapidly evolving landscape of artificial intelligence, the proliferation of voice cloning technology presents both extraordinary opportunities and significant risks. Our submission introduces an innovative application, "AI Detect," designed to detect and authenticate deep fake voices in real-time within any application or device. AI Detect leverages cutting-edge AI algorithms to differentiate between genuine and synthetic voice patterns, offering a flexible and robust solution to combat the fraudulent use of AI-enabled voice cloning.

The core of AI Detect is its advanced machine learning model, trained on a vast dataset of real and cloned voices. This model is capable of analyzing voice data in real-time, identifying subtle discrepancies that distinguish authentic voices from their artificial counterparts. The app's user-friendly interface allows for seamless integration into various communication platforms and devices making it accessible for both individual consumers and large enterprises at scale.

Our solution addresses the FTC's criteria for administrability and feasibility by providing a scalable and easy-to-implement tool that requires minimal user interaction. AI Detect places the responsibility of voice authentication on the technology itself, thereby reducing the burden on consumers and enterprises. The algorithm's design ensures that it can be updated regularly to keep pace with advancements in voice cloning technology and the necessary hardware and software integration points, maintaining its effectiveness and resilience over time.

AI Detect also proposes a framework for increased public and private sector responsibility, suggesting that service providers that leverage voice as a modality, integrate this technology to safeguard their users proactively. By implementing AI Detect, companies and government agencies can demonstrate their commitment to consumer protection and ethical use of AI technology as well as get real-time data on the prevalence of fake AI usage.

In summary, AI Detect represents a reasonable development effort and effective approach to addressing the challenges posed by AI-enabled voice cloning. It offers a practical, user-friendly, and adaptable solution, ensuring the safety and authenticity of digital voice interactions in an age where the distinction between real and synthetic voices is increasingly blurred. Individually, only the wealthiest people & businesses would be able to access protection and therefore needs to be a collective solution to protect all citizens and small businesses.

Our company plans on using our existing technology and decades of experience in electrical and computer engineering, AI, and the physiology of human speech to make this solution a reality.