validsoft
Voice. Identity. Guaranteed.

DEEPFAKE AUDIO DETECTION SOLUTION:

VALIDSOFT VOICE VERITY™

DEEPFAKE AUDIO – A NEW THREAT

Deepfake audio, also known as synthetic audio, is a type of artificial intelligence-generated audio that can mimic the voice of a real person to a high degree of accuracy.

In recent years, Deepfake technology has become increasingly real and will continue to evolve. The rapid advances in usage of Large Language Models (LLMs) in AI applications such as ChatGPT have created opportunities for fraudsters/hackers, making Deepfakes one of the foremost emerging methods for perpetrating fraud and identity theft.

Deepfake technology has a wide range of potential applications, but it also has the potential to be used for malicious purposes, such as committing financial fraud. In this white paper, we will explore ValidSoft's AI-based Deepfake Detection product – Voice Verity™ – and how this can be used by any enterprise to detect synthetic audio and prevent deception, identity theft, financial fraud and reputational damage.

World first! – Patented generative AI audio deepfake detection

AI Deepfake attacks are prevalent and realistic.

ValidSoft's patented *and proven* technology is at the forefront of detection and prevention of Generative AI deepfake cyber attacks

VOICE-VERITY™ GENERATIVE AI DEEPFAKE AUDIO DETECTION

Monitor every call for generative AI deepfake audio, computer generated speech and Robo-calls. The first check that MUST be done for every call placed to an agent, IVR or IVA – is it a genuine human or is it synthetic – delivering an enhanced risk-based approach to every call protecting your customers seamlessly and invisibly

- High accuracy deepfake protection
- Real-time audiostreaming, and off-line processing
- Standard API driven, low latency protocol support
- Zero customer enrolment or verification
- No PII data
- 100% privacy compliant

HOW VALIDSOFT STOPS DEEPFAKES

ValidSoft has been at the forefront of synthetic speech detection for years, and developed its first such applications to strengthen its voice biometric systems in around 2012. ValidSoft collaborates with some of the world's leading academic institutions on cutting-edge research and development.

Our anti-spoof detection capabilities, are based on years of experience and research in speech science, signal processing and voice biometrics leveraging large-scale Deep Neural Network (DNN) techniques.

Users of ValidSoft's latest-generation of voice biometric technologies are already protected against deepfake audio, as Deepfake detection is integral to those solutions. However, for the first time, enterprises can now deploy Deepfake detection seperately, as a fully standalone solution.

THE SOLUTION: VOICE VERITY™

ValidSoft's Voice Verity™ Deepfake detection solution offers a strong value proposition, and is immediately available in multiple deployment configurations, including: Cloud, Private Cloud, On-premise, Hosted and SaaS.

Voice Verity™ is not a biometric solution, it requires no user enrollments, no consent workflows, and does not hold or store any Personally Identifiable Information or "personal data" under GDPR or similar privacy frameworks, so can be deployed and operational immediately.

For users of legacy biometric solutions with no/inadequate deepfake detection capability, ValidSoft's Deepfake detection solution can run as a standalone service in parallel, providing a strong and additional layer of protection for any enterprise.

CONCLUSION

Deepfake audio is here to stay, and exploitation, both good and bad, will increase. Staying ahead of the threat is key, and ValidSoft can help any organization gain a competitive advantage and protect its reputation and its customers by leading the field in the detection and prevention of such attacks.

For more information, please visit www.validsoft.com or contact ValidSoft at info@validsoft.com.

KEY FEATURES OF VOICE VERITY™

- Immediately available to all enterprises, and the technology is already deployed in real world live deployments with some of the world's largest financial services institutions.
- Highly accurate, and independent of specific watermarking.
- 100% privacy compliant, including with GDPR, CCPA, BIPA, and all major privacy law frameworks.
- Totally standalone product, decoupled from any existing voice biometric deployments.
- Can process and search for Deepfake audio in real time, or as a retrospective batch process.
- Can be deployed to provide visual real-time Alerts to (contact center) agents or users in a fraud control panel for escalation handling.