

SpeechZero™

AI-powered speech recognition and synthesis.
Zero data. Zero cloud. Zero headaches.



WHAT IS IT?

SpeechZero™ is a full-pipeline conversational AI solution for automatic speech recognition (ASR), natural language understanding, and automatic response generation that works across a wide range of training and operational domains. SpeechZero™ is a patent pending, conversational AI software system that can be deployed with zero prior data or cloud connectivity.

HOW DOES IT WORK?

SpeechZero™ incorporates several features that mitigate challenges and limitations of current commercial ASR systems. This system provides an editor experience toolkit, zero data feature, response generation, and a deployable, at-the-edge capability, which increases speech interpretation, generation, accuracy, and applicability in specialized domains.

WHAT DOMAINS CAN IT IMPACT?

Air, Ground, and Sea Platforms ♦
Autonomy ♦ Medical ♦ C4I ♦ Cyber ♦
Human Systems

Capability Overview

- Offers a **robust conversational AI solution** for tailored speech understanding and response generation in a wide range of DoD training and operational domains.
- **Delivers state-of-the-art recognition performance** within DoD domains with limited or zero training data, and works in both secure and denied environments.
- **Empowers domain experts to author and refine specialized language models** using a simple editing interface without requiring prior technical knowledge.
- **Integrates easily with training and operational systems**, providing intelligent, context-driven dialog support for DoD simulation environments, decision-support systems and autonomous platforms.

Proven Use Cases

- Interactive synthetic teammates and OPFOR
- Radio communication simulation and training
- Intelligent speech interfaces for unmanned platforms
- Medical casualty handoff training

Let's Chat!

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