

# SpeechZero®

AI-powered speech understanding 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 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?

- Automatic generation of speech recognition models from existing raw-text data sources
- Recognition and understanding of incomplete or partial speech fragments
- Robust, AI-driven dialog to support manned-unmanned teaming (MUM-T) use cases

## 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.
- **Compatible with multiple hardware platforms and form factors** including tablets, smartphones, physical radio devices, and head-mounted displays.

## Proven Use Cases

- Interactive synthetic teammates and OPFOR
- Radio communication simulation and training
- Intelligent speech interfaces for unmanned platforms
- Medical casualty handoff training
- Hands-free interface to **operational systems at the edge**

## Let's Chat!

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