



Turning audio into intelligence

Who We are ?

Ramy



Tobias



Vasiliy



Asyl



Alexander



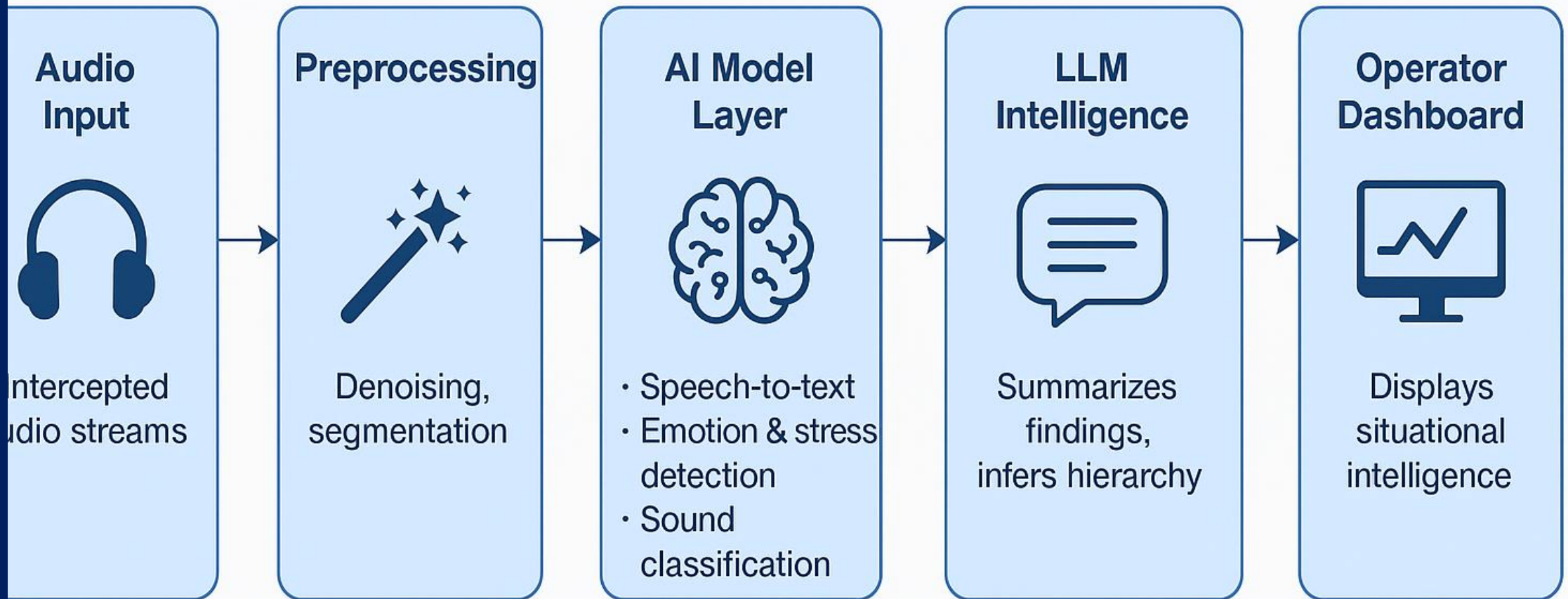
Deloitte.

The problem

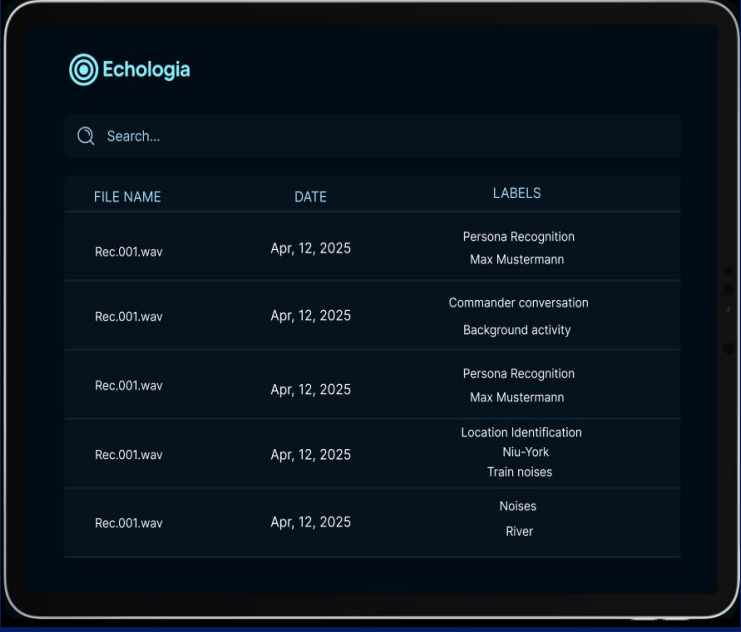
1. Collecting audio data
2. Intercepted is not clean and underutilized.
3. Current SIGINT tools focus on *what* is said, not *how* or *where*.
4. Lack of automation slows tactical decision-making in fast-changing environments.

How we solve this?

EcoLogia – Audio Intelligence Pipeline



How it looks like?



The Echologia interface displays a table of audio recordings. The table has three columns: FILE NAME, DATE, and LABELS. The data is as follows:

FILE NAME	DATE	LABELS
Rec.001.wav	Apr 12, 2025	Persona Recognition Max Mustermann
Rec.001.wav	Apr 12, 2025	Commander conversation Background activity
Rec.001.wav	Apr 12, 2025	Persona Recognition Max Mustermann
Rec.001.wav	Apr 12, 2025	Location Identification Niu-York Train noises
Rec.001.wav	Apr 12, 2025	Noises River



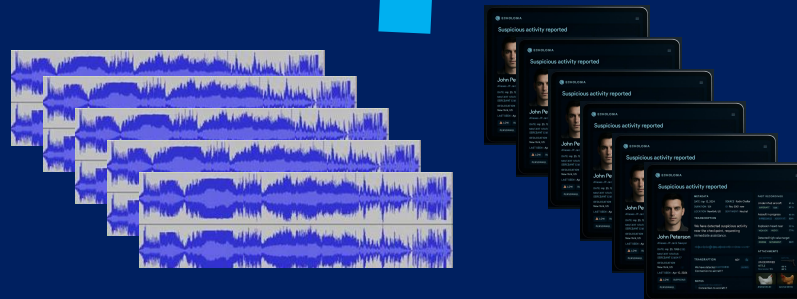
The Echologia interface displays a detailed profile for John Peterson. The profile includes a photo, name, aliases, date of birth, military status, serceant number, geolocation, last seen date, and a list of suspicious activities. The interface also shows a transcription of the audio recording and a list of attachments.

Suspicious activity reported

John Peterson
Aliases: JP, Jack Sawyer
DATE: Apr 25, 1956 (28)
MILITARY STATUS: SERCEANT (265477)
GEOLOCATION: New York, US
LAST SEEN: Apr 10, 2024

TRANSCRIPTION
We have detected suspicious activity near the checkpoint, requesting immediate assistance.

ATTACHMENTS
UN IDENTIFIED
NITTLE
Guinness 10%
Animal (24.5)
Animal (51.6)

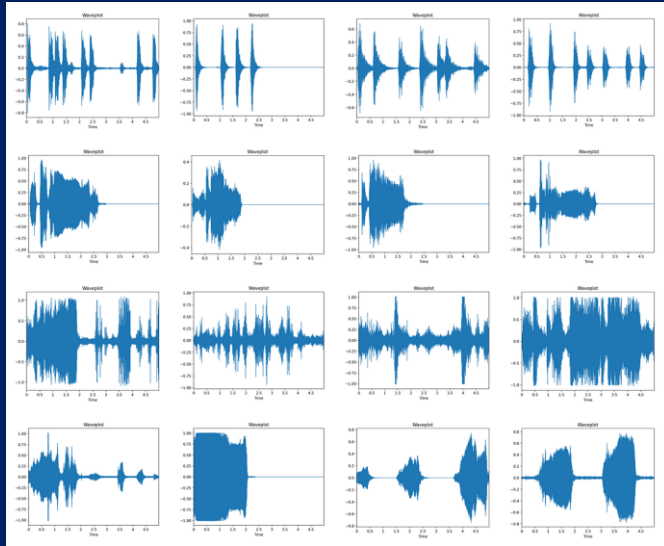


Hackathon Achievements

- Prototype built integrating Whisper + LLM for multi-layered audio intelligence.
- Visual concept mock-up + backend logic diagram.
- Team collaboration on multimodal AI integration.

What to do next?

Real data from real world



POC

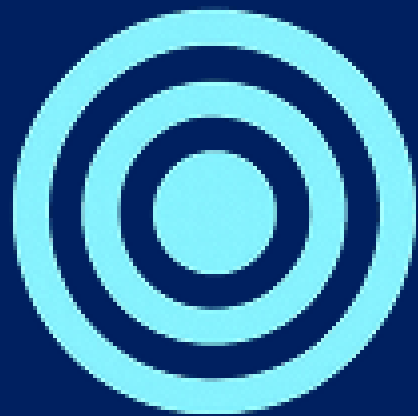


Scale



Deployment & Scale

- Runs on **field-deployable devices** (e.g., Panasonic Toughbook).
- Modular backend for integration into **NATO ISTAR** or civilian emergency systems.
- Scalable cloud / edge architecture.
- Designed for **secure environments (air-gapped or encrypted networks)**.
- Potential for dual-use: defense, disaster response, intelligence fusion



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