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Corti is like a “GPS” for patient interviews**, reducing misdiagnosis by** using **Artificial Intelligence** to guide the medical professional to the right decision.

The hardest and most critical patient decision happens before the hospital.

Each vertical supplements the next.

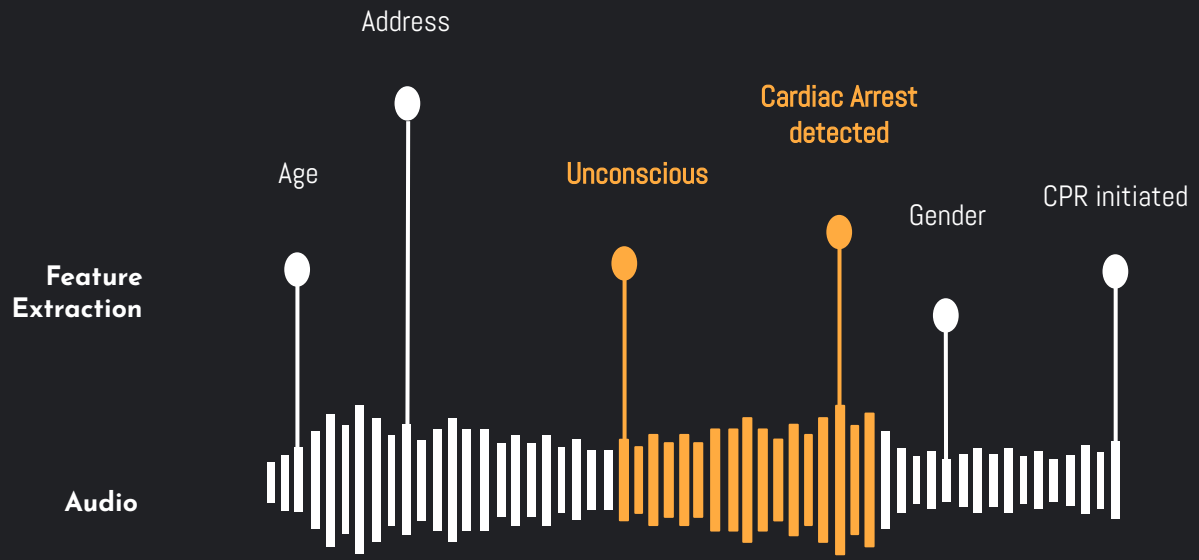
01
Emergency Medical Services

02
Hospital Departments, e.g. maternity wards.

03
Interviews, e.g. psychiatric evaluations.

:00
00:12:30
00:13:00
00:13:30
27 Marconi Rd. New York, NY 10023
Unconscious

The Corti AI is able to listen to calls in real-time and provide decision support.



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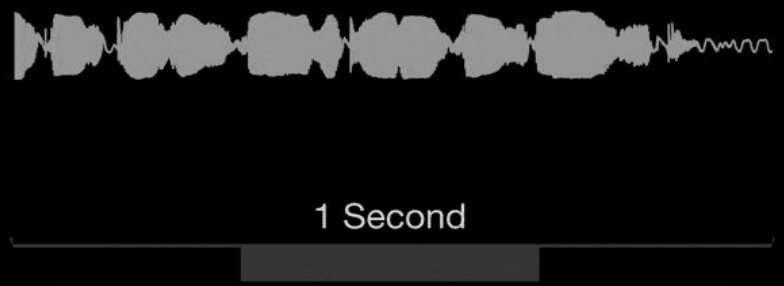
Results From Denmark and USA

84% Accuracy
Cardiac Arrest diagnostic accuracy was increased from 72% to 84%

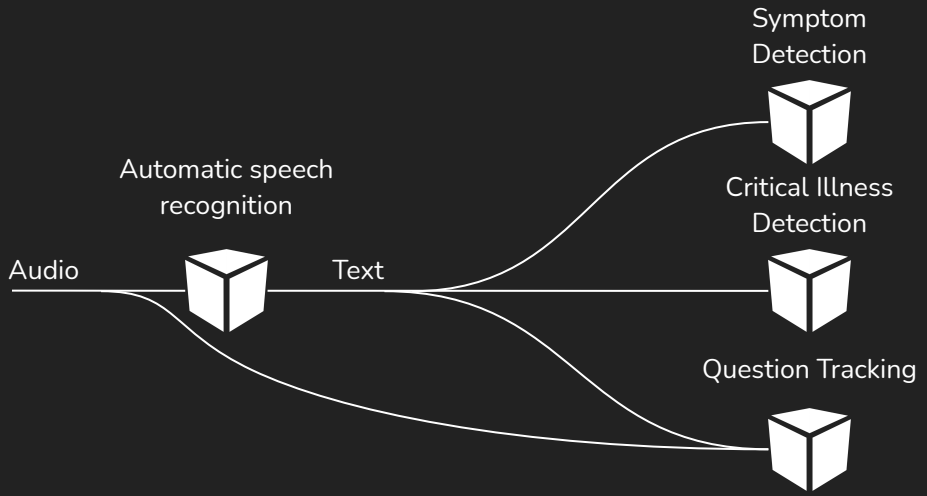
25% Faster
Corti helped dispatchers detect Cardiac Arrest over 25% faster

50% Fewer Mistakes
Diagnostic errors decreased by almost 50%

Corti’s machine learning service consists of many interacting models.



Most of our models depend on the Automatic Speech Recognition (ASR) model.



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Generating Speech from Transcripts

Generating low-resource languages audio samples from machine-translated text

Generating Speech from Transcripts

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The project

Acquiring training data is expensive, labelling even more so.

Modern generative processes can generate high-quality audio samples from text.

Combined with machine translation, generate inexpensive data for low-resources languages.

Generating Speech from Transcripts

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The project

ASR

“Is he conscious and awake?”

“Is he conscious and awake?”

WaveNet

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WaveNet

Examples of Text-to-speech

- Training on only audio (human-sounding, meaningless)
- Audio + text
- Audio + text, conditioning on speaker’s identity
- Generating music

Generating Speech from Transcripts

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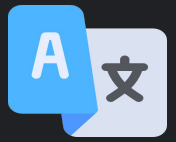
Project Structure



Translate transcripts using machine translation

Generate audio using WaveNet

Train an ASR model

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What we're expecting of you

You have a strong mathematical background and you are comfortable with theory-dense topics

You possess strong coding skills and you are familiar with a Deep Learning development tool (PyTorch, Keras, Tensorflow)

You can conduct experiments in a scientifically-sound way and you are effective in communicating your results

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QUESTIONS

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