

HandToHeart

Sign Language detection

Our Mission and Vision

Mission

create an inclusive and accessible conference platform that empowers non-verbal individuals

Vision

create a world where technology breaks down barriers, enabling seamless and effective communication for individuals of all abilities.

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- # Challenges Faced by Non-Verbal Individuals
- ◆ Communication Barriers
 - ◆ Limited Participation
 - ◆ Challenges in Professional Settings
 - ◆ Dependence on Interpreters
 - ◆ Lack of Accessible Technology

Existing Solutions and Their Limitations

Current Solutions

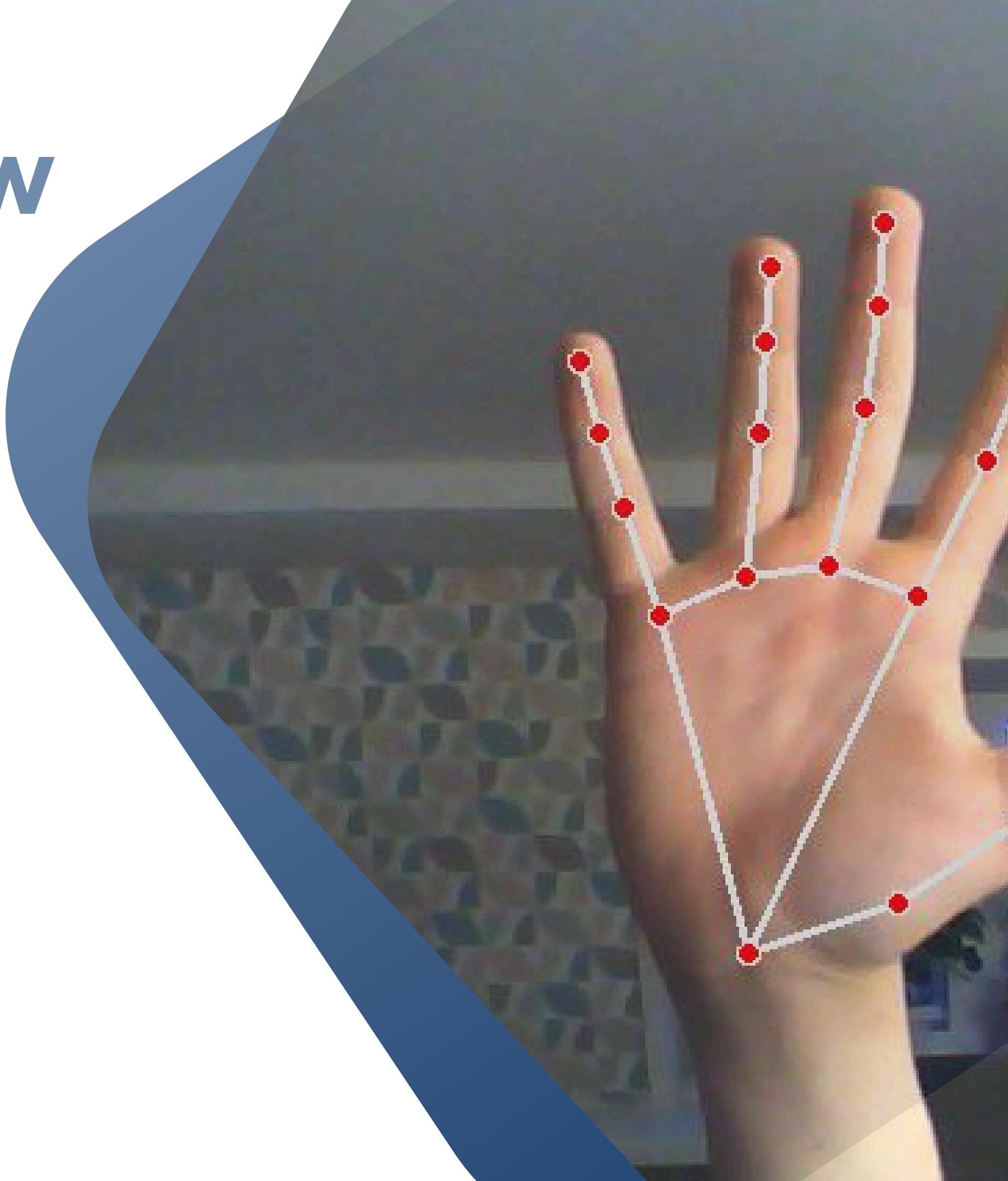
- ◆ Traditional interpreters.
- ◆ Pre-recorded sign language videos.
- ◆ Text-to-speech applications.

Limitations

- ◆ Dependence on human interpreters.
- ◆ Delay in communication.
- ◆ High costs and limited availability of interpreters.

Technical Workflow

- Capture sign language through the webcam.
- Process the video feed using AI/ML models trained to recognize sign language.
- Convert recognized signs into text in real-time.
- Display the translated text on the conference interface.



Technology Stack

- Frontend: HTML, CSS, JavaScript
- Backend: Django (Python)
- AI/ML Models: TensorFlow