SMART GLOVES

Bridging the Silence: for Deaf-Mute Communication

Problem Statement

Communication challenges faced by deaf-mute individuals in society ex : students into schools and universities

Lack of effective tools for integrating deaf-mute

The importance of a bidirectional solution (gestures → speech, speech → gestures)

SOLUTION

IoT-powered gloves that convert hand movements into spoken words and vice versa.

Real-time translation, adaptation to multiple languages, universal accessibility.

Key players include Intuitive Surgical, Medtronic, and Johnson & Johnson.

The product will be integrated with clothing brands, making it not just a technological tool but also a fashion statement, increasing its usability and desirability like a clothing brand

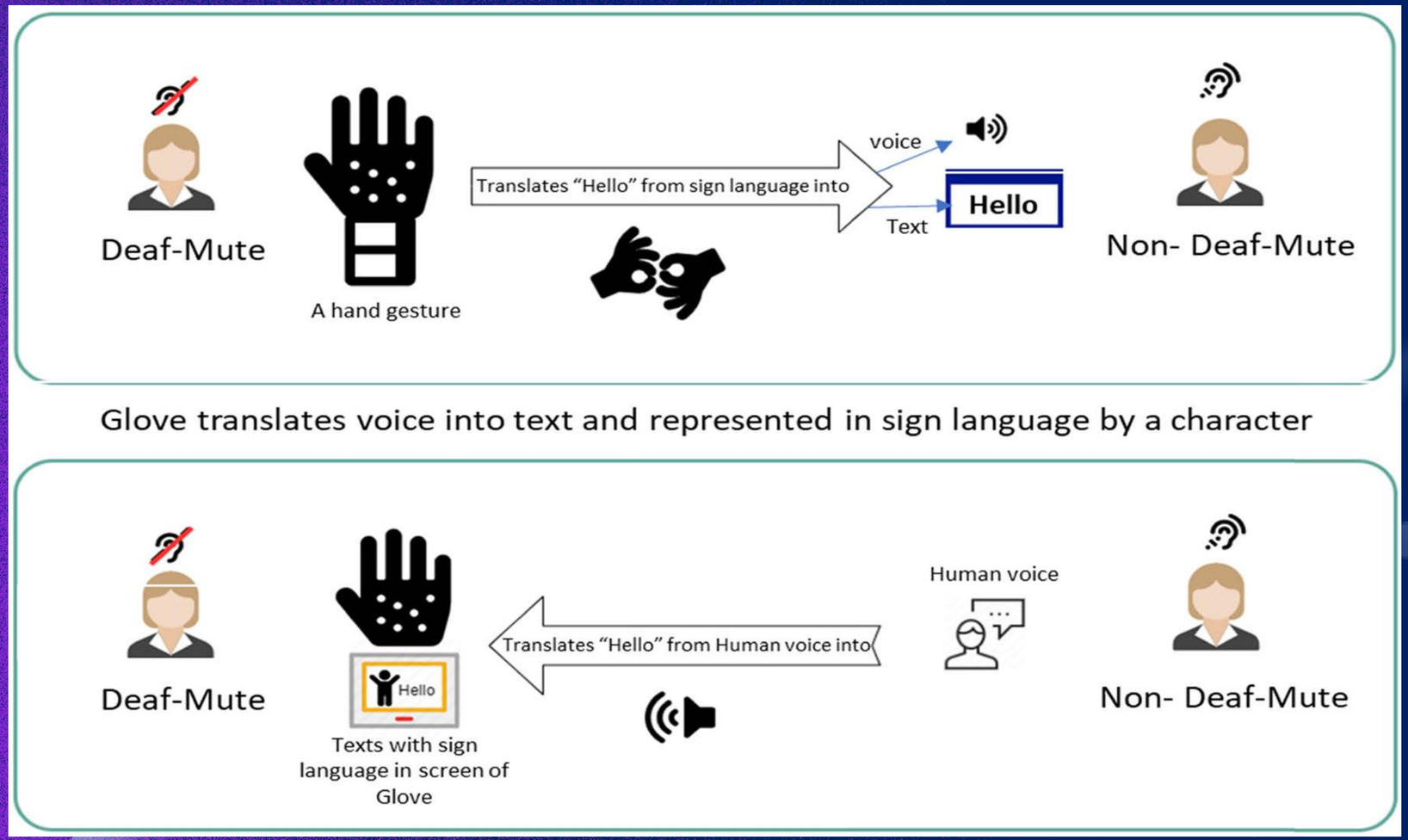
Technical Overview

1. The gloves are equipped with flex sensors and accelerometers that detect hand movements and finger positions .

2. **Speech to Gesture:** A built-in microphone detects spoken words and converts them into text within the glove's system. The processed text is then displayed as corresponding sign language gestures on a small LCD screen located on the top of the gloves .

3. The gloves communicate via Bluetooth or Wi-Fi with a companion app or external devices for additional functionality.

Technical Overview

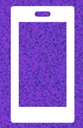


USE CASES

Deaf-mute students use the gloves in classrooms to communicate with teachers and classmates in real-time

Users can interact seamlessly in social settings, stores, and public transportation

Patients can communicate efficiently with doctors and nurses in hospitals



Compatible with smartphones and IoT devices for seamless interaction and data storage.

Market Overview

- Global number of deaf-mute individuals
- Market for accessibility and inclusive technologies
- Partnership opportunities with schools, institutions, associations, and businesses

Business Model & Monetization

1. Direct sales to individuals and institutions
2. Subscription-based companion app for updates and new languages.
3. Partnerships with schools, hospitals, and governments. Ex: Deaf-mute athletes

Roadmap

Prototype Completion (Current Stage)

Partner with electronic hardware manufacturers for scalable production

Small-scale production for beta testing with early adopters

Work with clothing brands to design and integrate gloves into fashionable wear

Work with clothing brands to design and integrate gloves into fashionable wear

Launch and scale distribution to markets with continuous software updates

TEAM

Braiki Ali

CEO &

Software engineer

Alloui abdelraouf

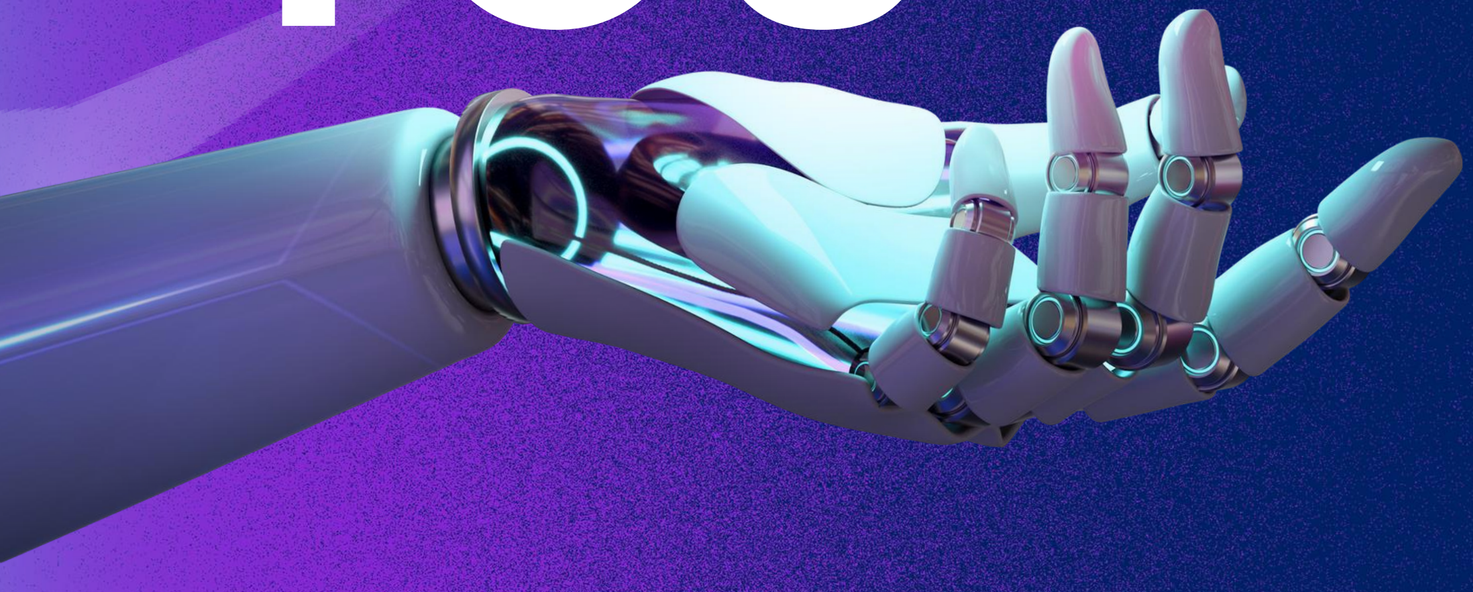
AI engineer

Abdelaziz Younes

BOUZOUIDJA

Statistical engineer

THANK YOU



Let’s Connect

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