Voicer

"It's time to Speak"

By Hackvengers

Let's meet the TEAM







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"To help an inclusive society that ensures equal opportunities for the growth and development of individuals who are deaf or unable to speak."

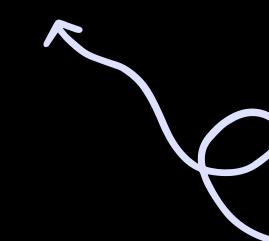




What's the Problem?



- Use sign language for communication.
- According to the National Geographic Society, approximately 72 million people in the world use sign language.
- In India, the number is approximately 10 million.
- Face difficulties in communicating with others who don't know sign language like us.
- They often have to rely on sign language interpreters.
- India in spite of having a large Deaf population, we have only around 300 skilled interpreters. (1 interpreter over approx. 33K Individuals)
- Hiring an interpreter might be expensive and inconvenient for all.







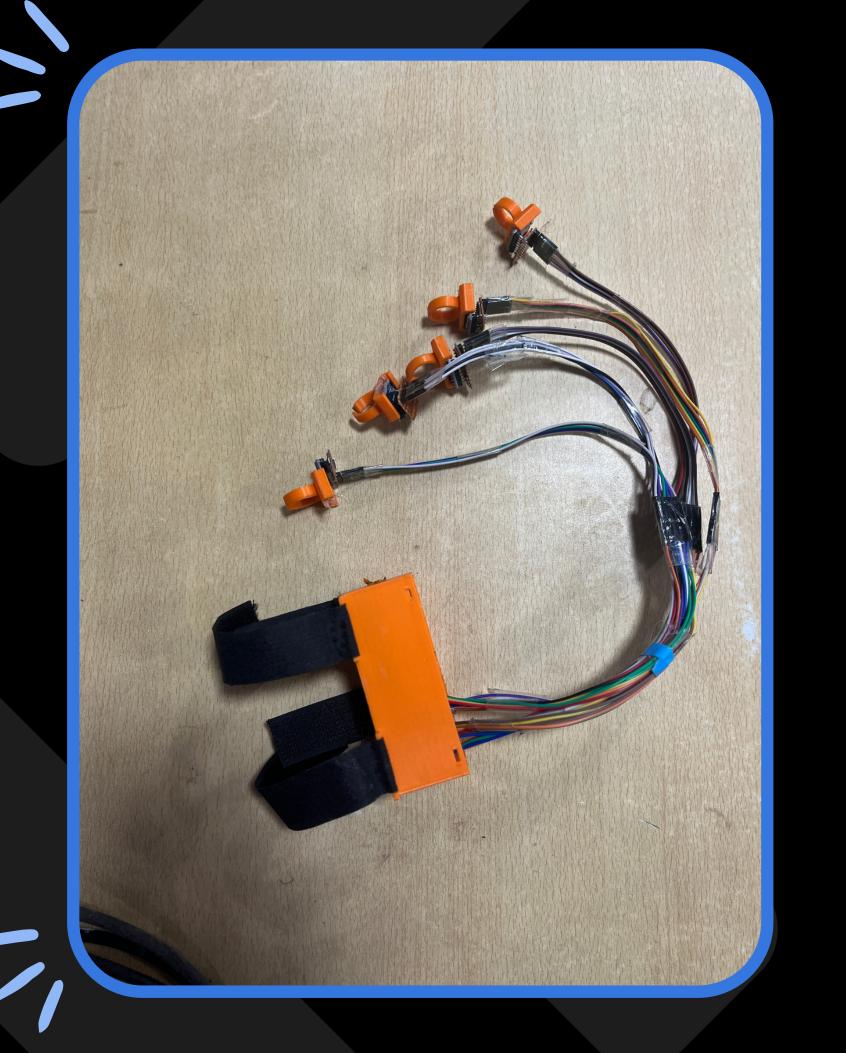
What's the Problem?



Sign language users may face several challenges in their day-to-day interactions with normal people who do not know sign language. such as;

- Communication Barriers
- Limited Accessibility
- Misunderstandings and Miscommunication
- Limited Employment Opportunities
- Social Isolation

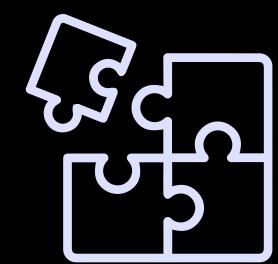








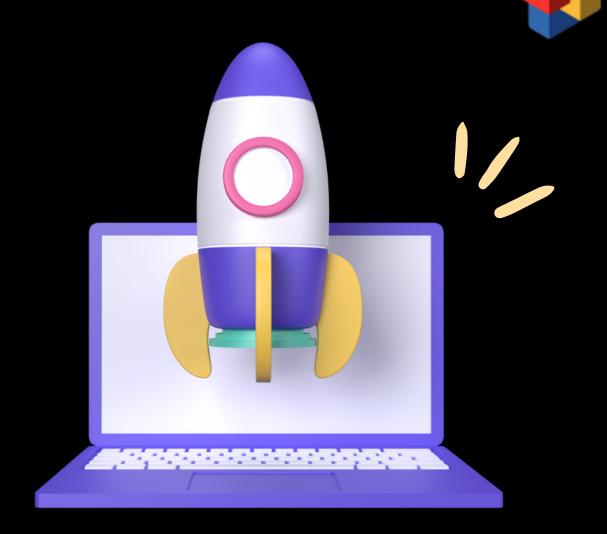
Voicer, a small, portable device that uses a sensor to machine learning algorithm to translate sign language into audio. This allows deaf and hard-of-hearing people to communicate with hearing people in real-time, without the need for an interpreter.





Key Features and Functionalities of the Device

- Real-time audio translation of sign language gestures.
- Portable and user-friendly design.
- Ability to bridge communication gaps without the need for sign language interpreters.

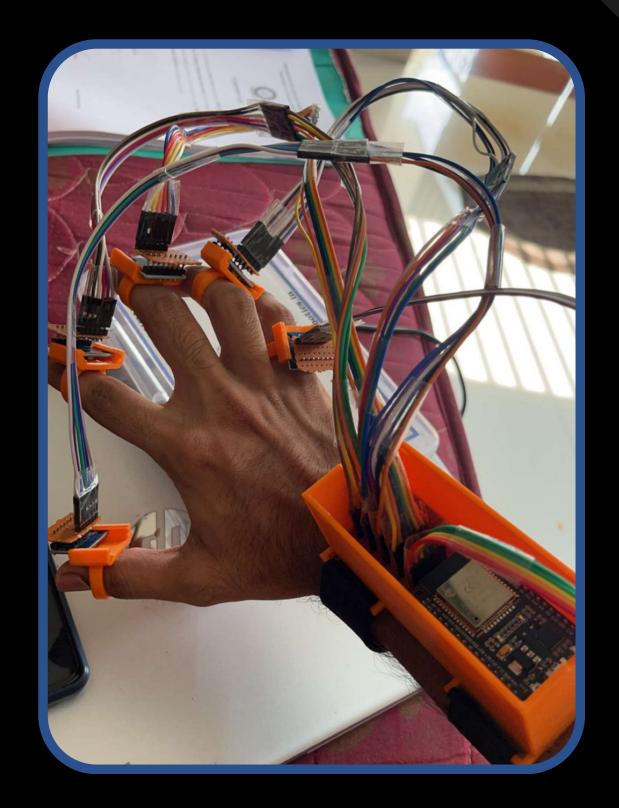


Future Developments

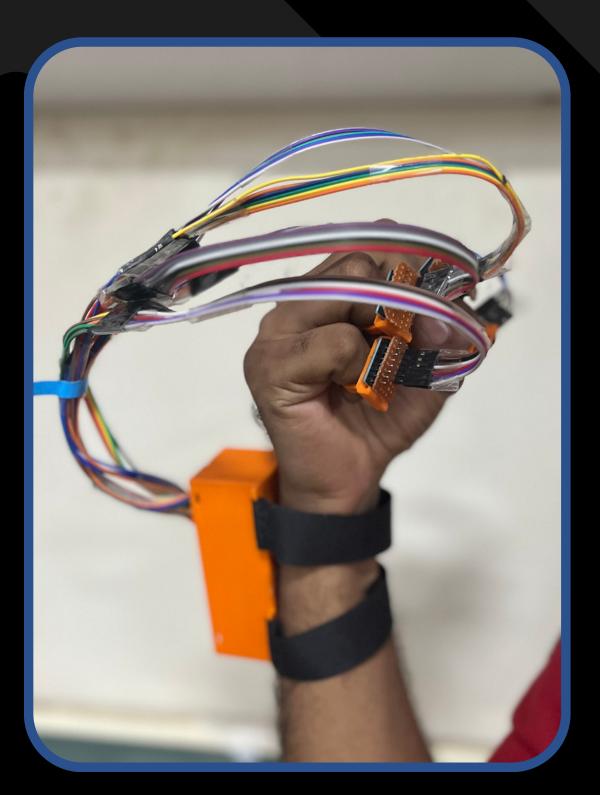
- Enhancements to support additional sign languages
- Potential collaborations with the deaf community, researchers, and technology experts.

Product (MVP)



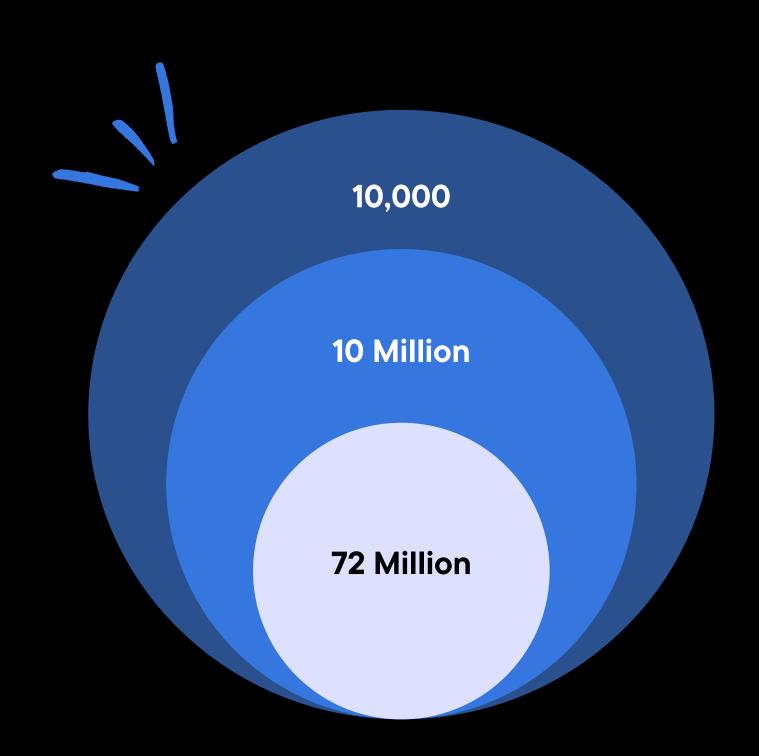








Size of the Market



Total Available Market (TAM):

72 Million

Serviceable Available Market (SAM):

10 Million

Serviceable Obtainable Market (SOM)

10,000





Key Partnerships

- Sign Language Experts
- Educational Institutions
- Medical Experts
- Distribution and Sales
 Partners

Key Resources

- Technological Infrastructure
- Skilled Workforce
- Partnerships and Collaborations

Key Activities

- Research and Development
- Dataset Expansion
- Manufacturing and Quality Control
- Marketing and Sales
- Customer Support

Value Proposition

- Decrease
 Communication Barriers
- Increased independence and confidence
- Improved quality of life
- Reduced rely on interpreters

Distribution channels

- Direct sales
- Online retailers
- Physical store
- Partnerships

Customer Segments

• Individuals who use sign language

Customer relationships

- Customer Support
- Training and Education
- Feedback
- Continuous Improvement

Cost Structure

- Manufacturing
- Marketing
- Distributors

- Logistic
- Servers
- Human Resources

Revenue streams

- Customers/Device Sales
- By selling merchandise
- Partnership



Financials for MVP



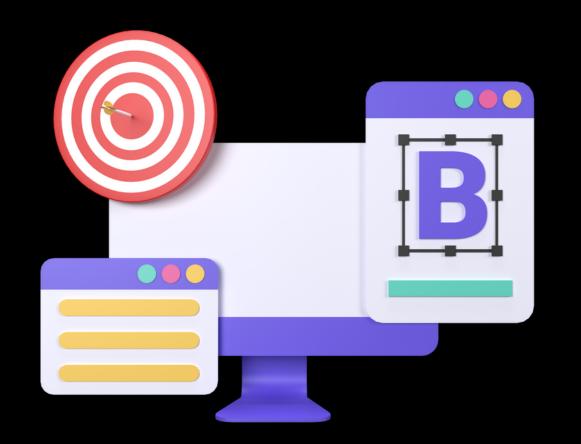
Items which are needed	Estimated Cost (₹)
Controller	2000
PCB	2000
Sensors	2800
Wires	500
Audio Module	2500
Designing	1000
Server Charges	1000
Maintains Cost	900
TOTAL	12,700 ≈ 13,000





<u>Limitation of Existing Solutions</u>

- Primarily focus on American Sign Language (ASL) or British sign language (BSL).
- Software Dependency (constraints of the phone)





Uniqueness of Our Solution

- Mainly focus on Indian Sign Language (ISL)
- Audio output for better understanding.
- Portability and accessibility anytime, anywhere

Doyou have any questions?



We hope you enjoyed our pitch.