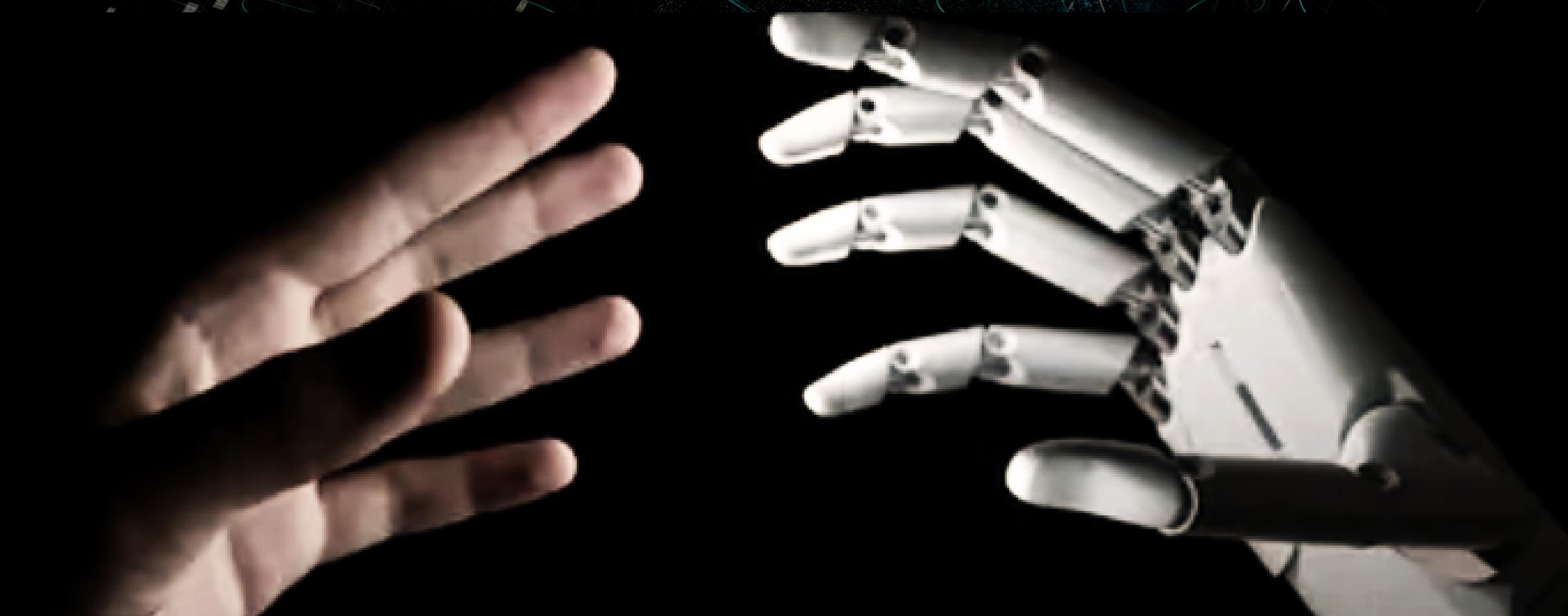


Connect



1. Problem

NGO, background of our targeted beneficiaries

2. Idea

Our targeted clients,
proposition of idea,
implementation

3. Impacts

How our idea could benefit
the hearing impaired?

4. Road map & Conclusion

Future development of our model

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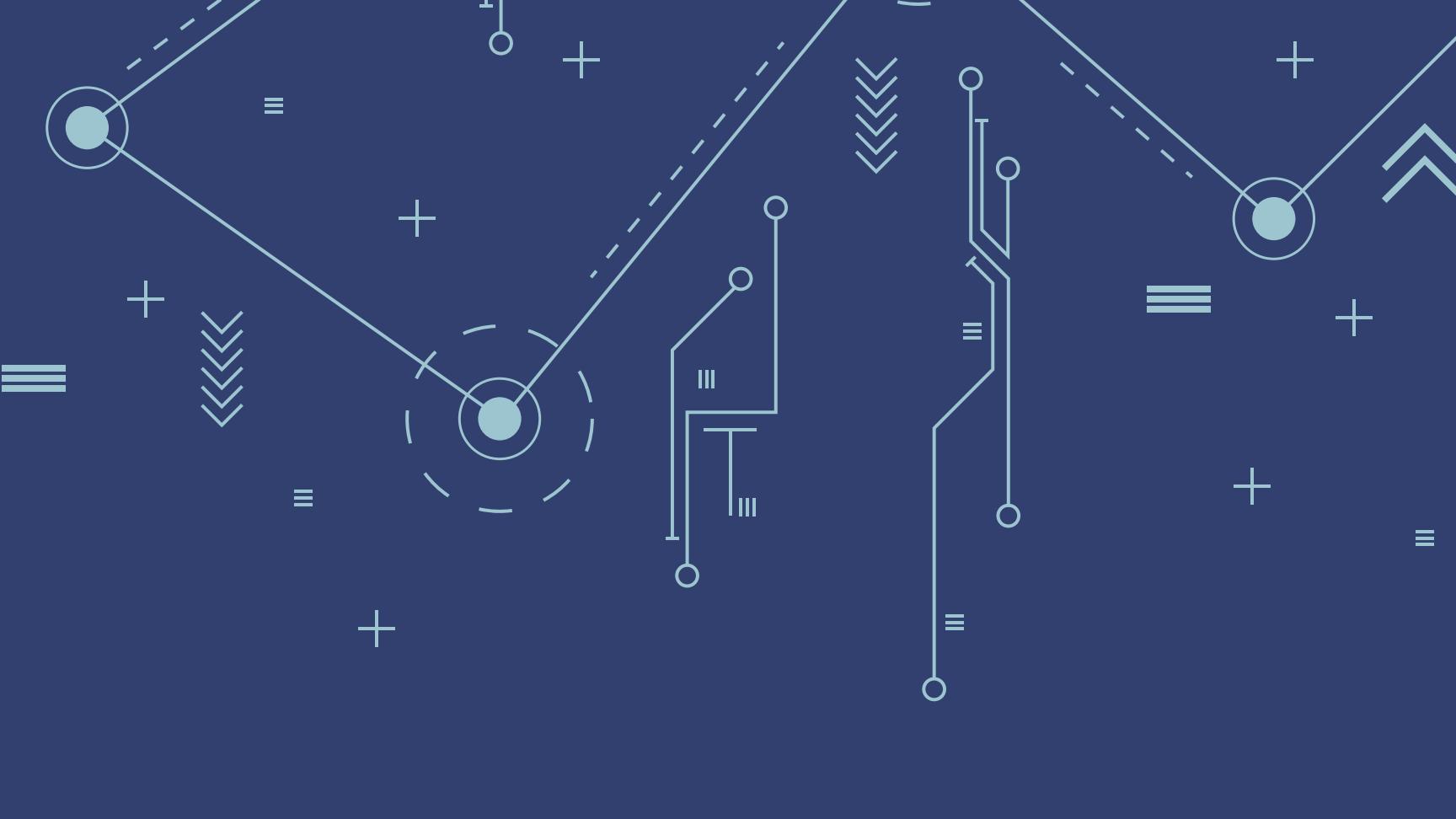
1.NGO background/market analysis



SG Enable aims to make it possible for people with disabilities to live, learn, work, and play in a society that is inclusive. As Singapore's main organization for people with disabilities, it promotes understanding of the issues surrounding them and makes it easier for people to access programs and services.

Open Door Programmes (ODP)

- Through subsidies and employment assistance services, SG Enable's ODP motivates firms to hire, train, and integrate people with disabilities into the workforce.
- Employers can find qualified candidates for open positions and receive tailored post-placement support from certified job coaches for up to a year.
- Grants provided through the ODP cover the cost of job redesign as well as training sessions for businesses and staff members on how to communicate with, hire, integrate, and retain people with disabilities in their workplaces.



Background

Hearing loss can affect a person in three main ways:

- fewer educational and job opportunities due to impaired communication
 - social withdrawal due to reduced access to services and difficulties communicating with others
 - emotional problems caused by a drop in self-esteem and confidence.
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2. Our idea

We aim to streamline the signing process to better help our hearing-impaired workers to better integrate their workplace especially during work meetings whereby body language significantly improves quality of meeting, and hence empowering our target audience.

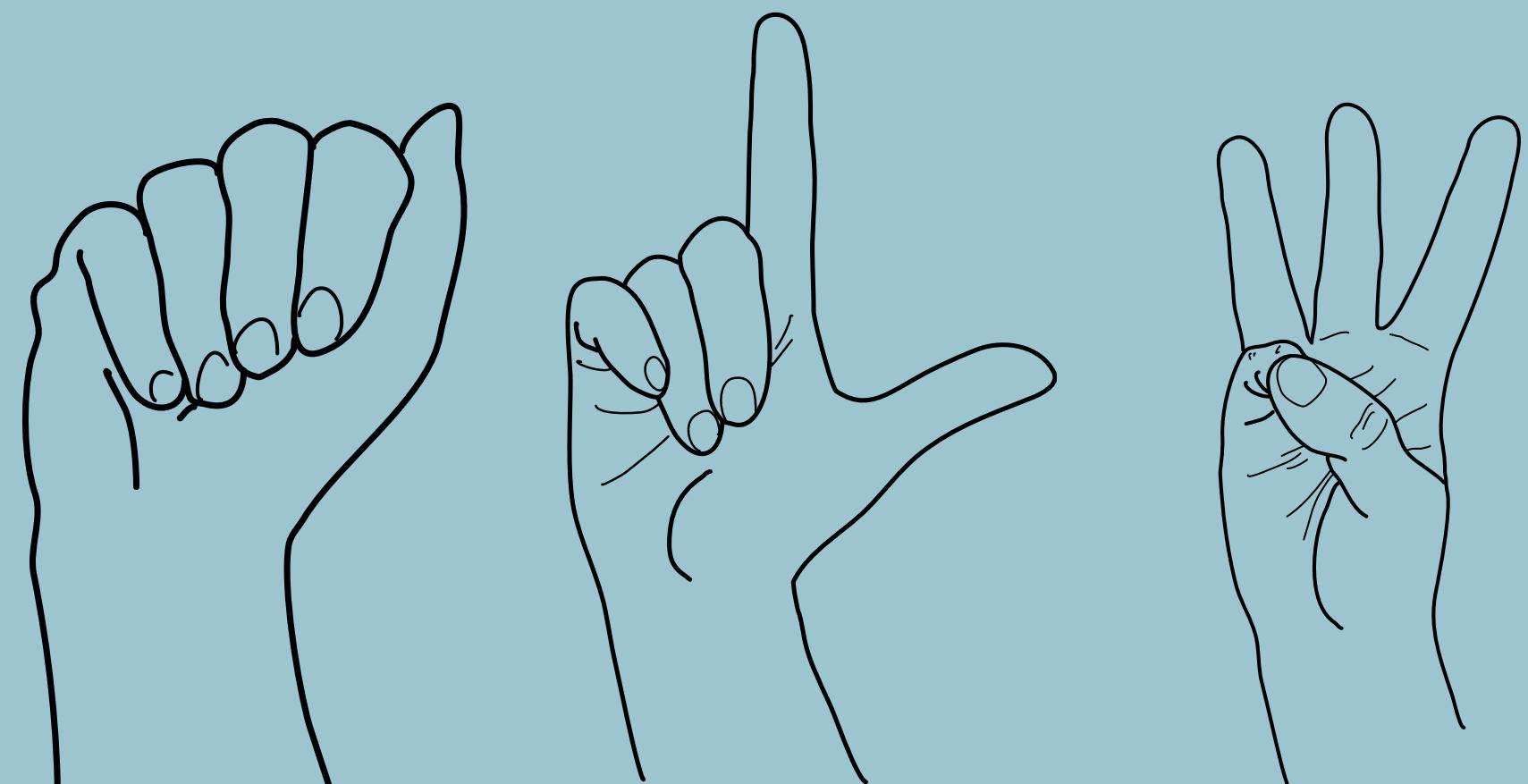
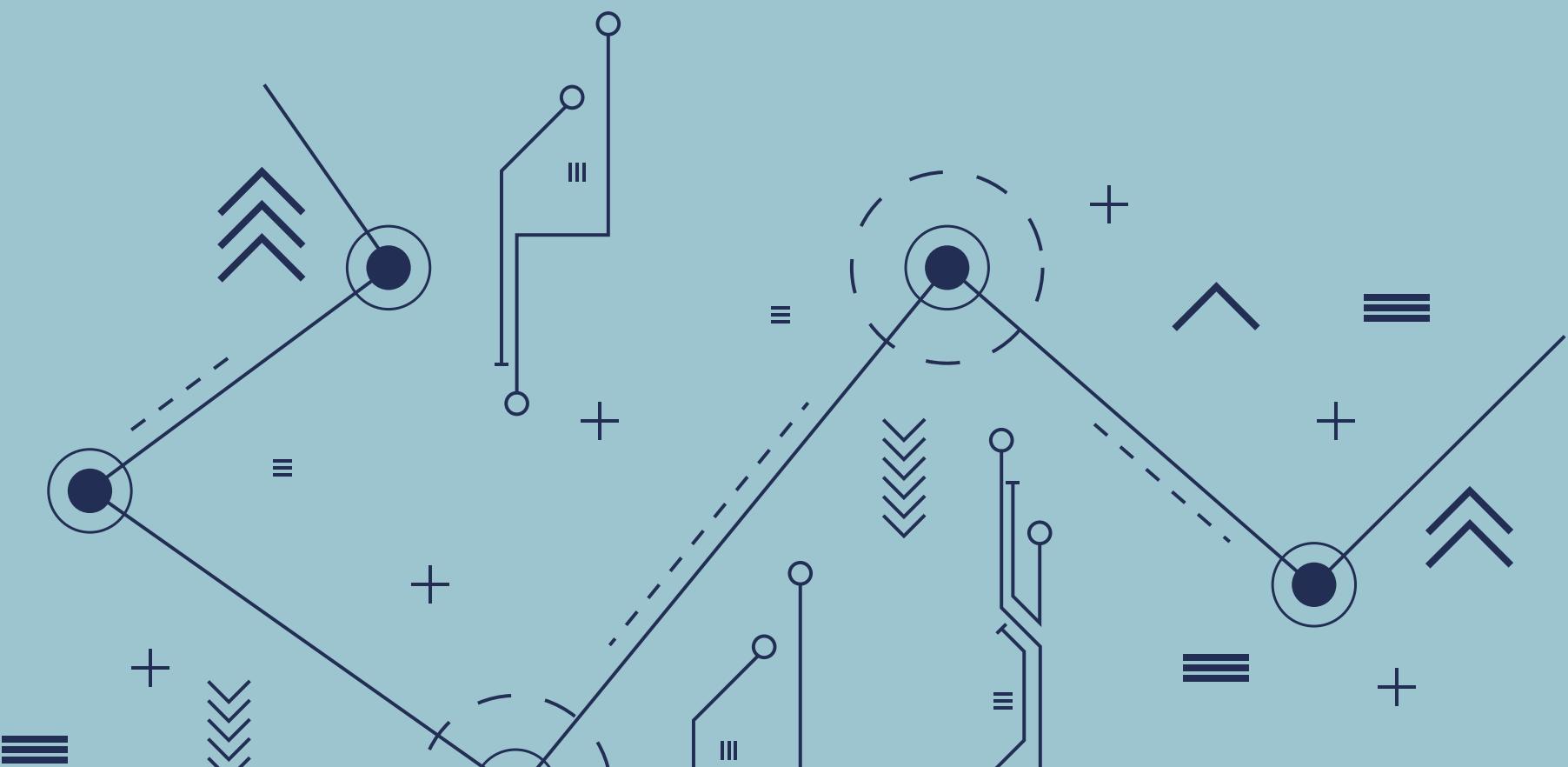
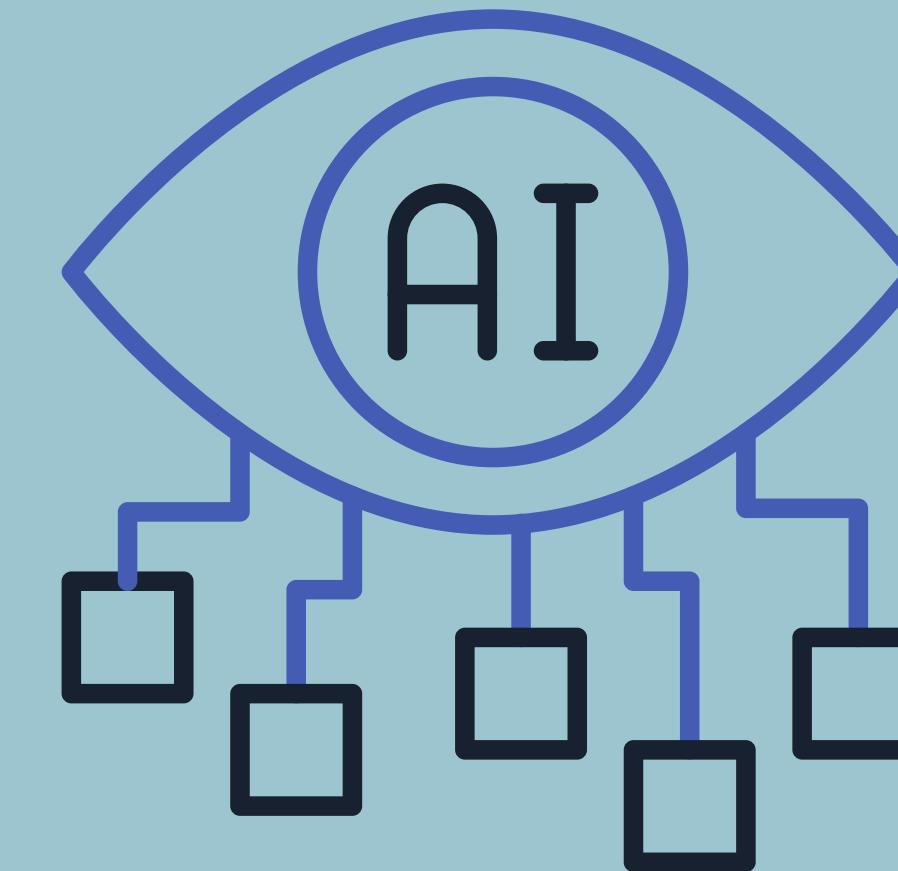
Our clients would be targeted towards social entrepreneurs that aims to empower people with hearing disabilities by providing them jobs. Often work meetings might be slowed down and inconvenient if it requires a sign language translator to be present, or if the worker has to write down their thoughts instead of communicating it directly.



Implementation

Making communication platforms more accessible to the hearing impaired using computer vision with signal to text function to enable and facilitate a more efficient communication.

Functions could be further elaborated for different use case such as day to day interaction but for our prototype in this hackathon, we focus on using it as an extension on video calls during work meetings.



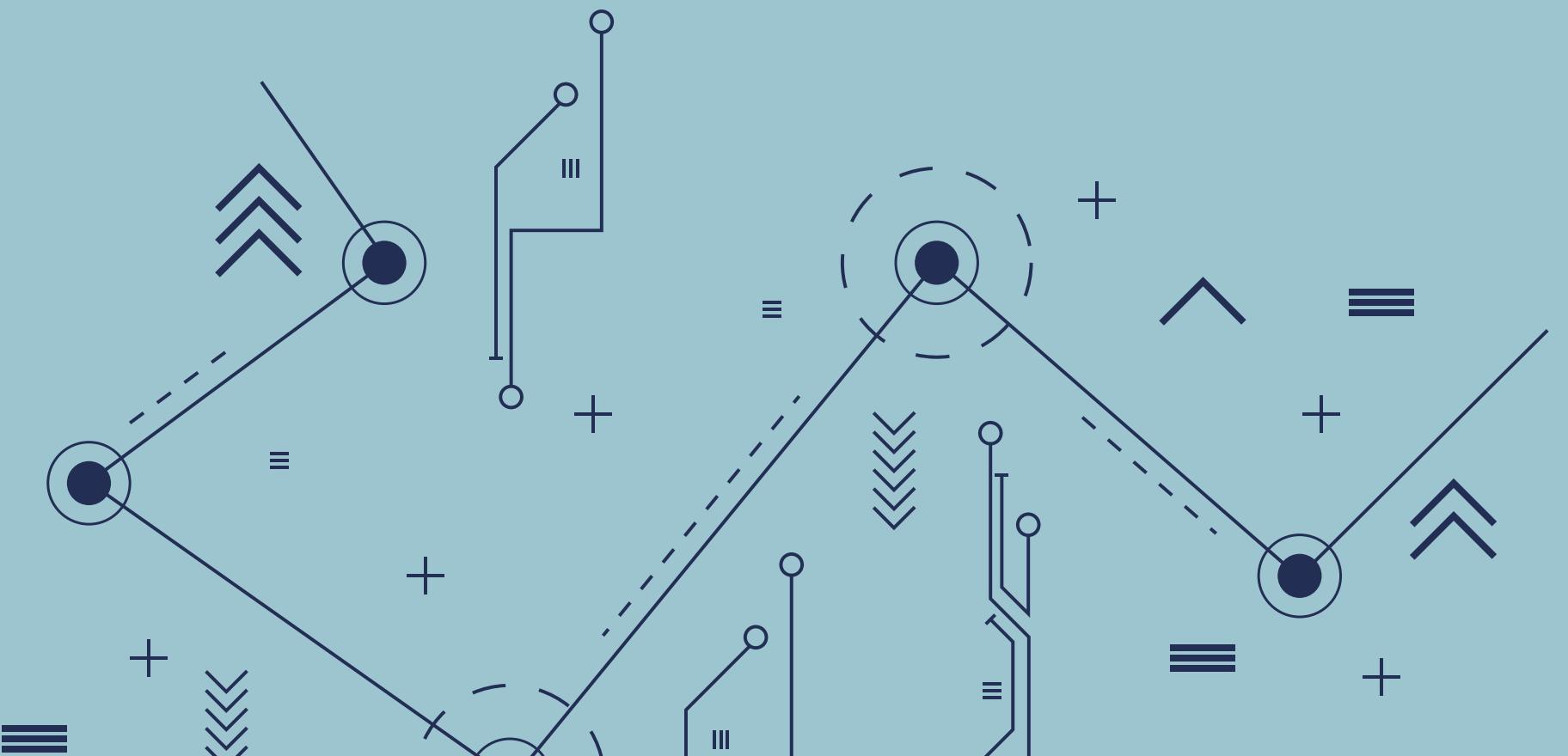
Techical built

Datasets were collected according to the American Sign Language.

Dataset curated were then trained on a model on TensorFlow and Keras.

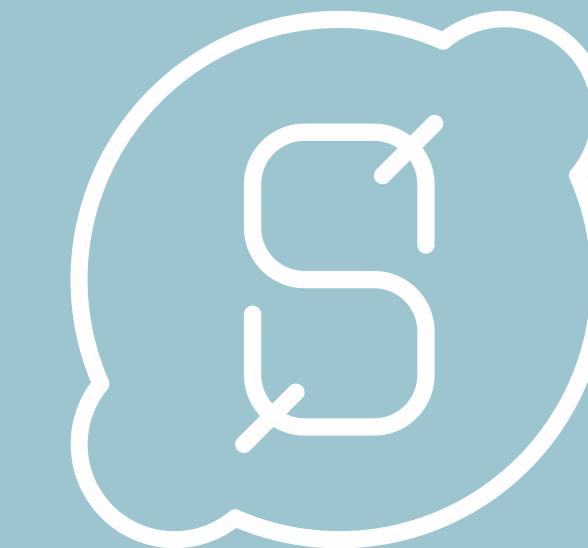
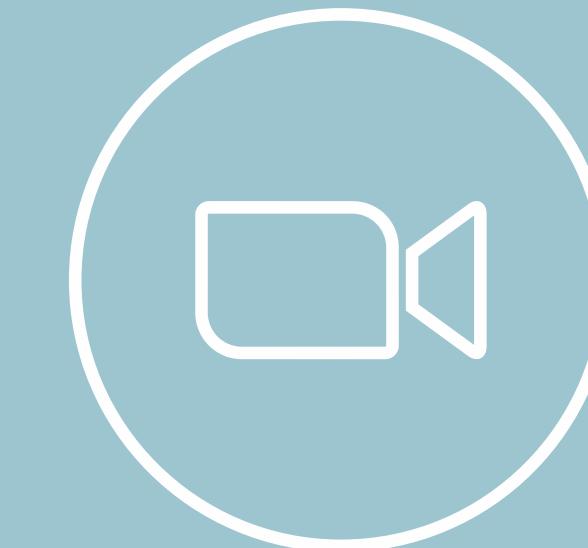
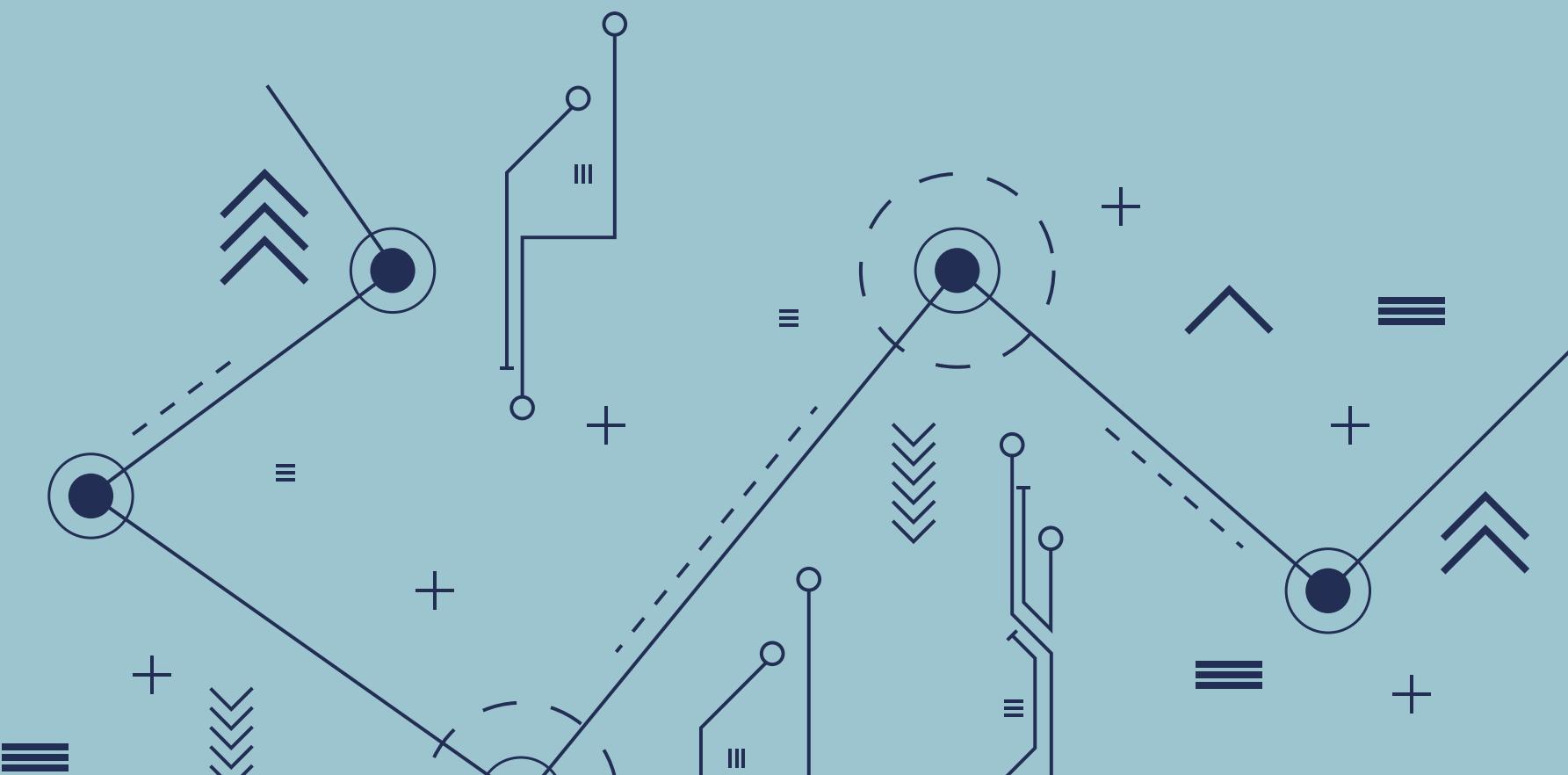
Model trained has hits about 80% accuracy of interpreting sign language.

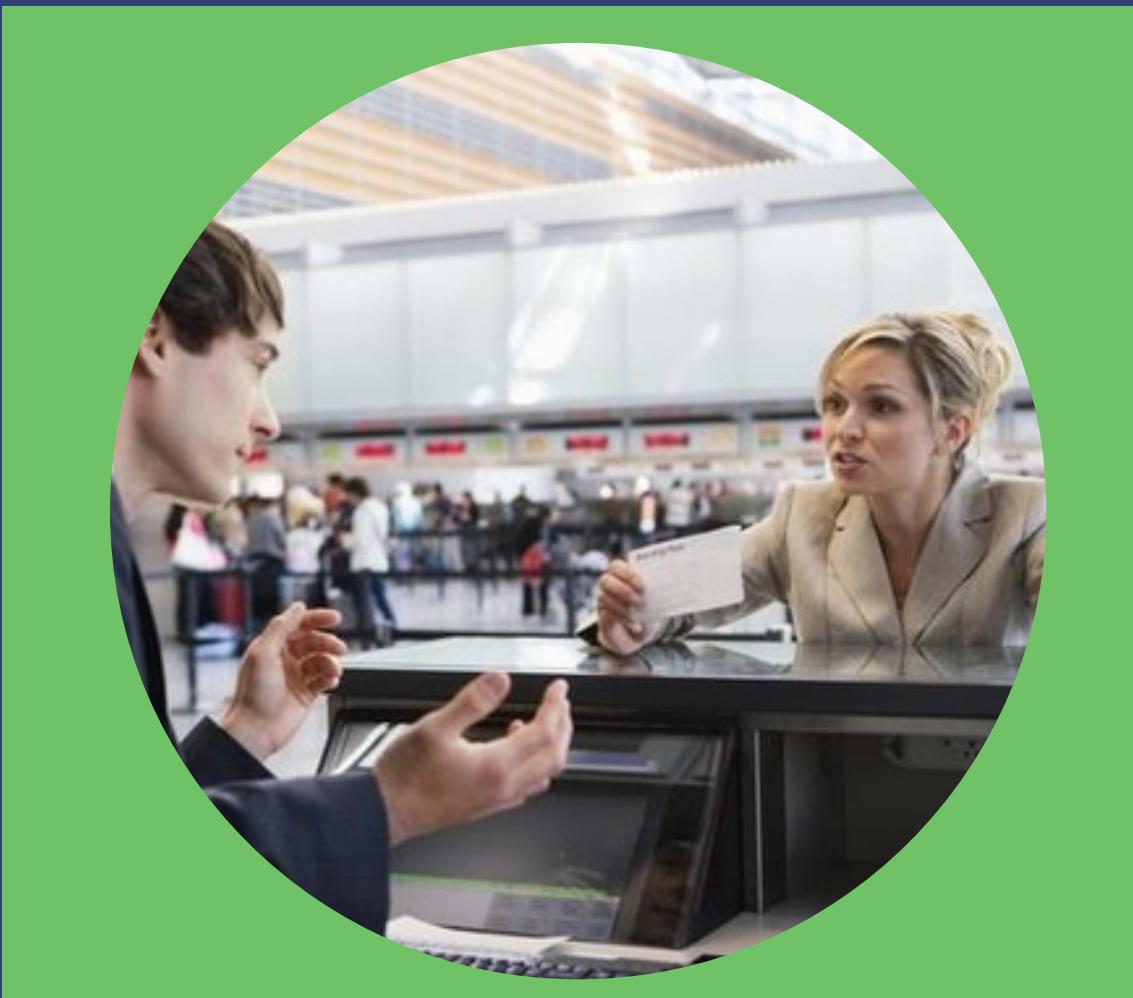
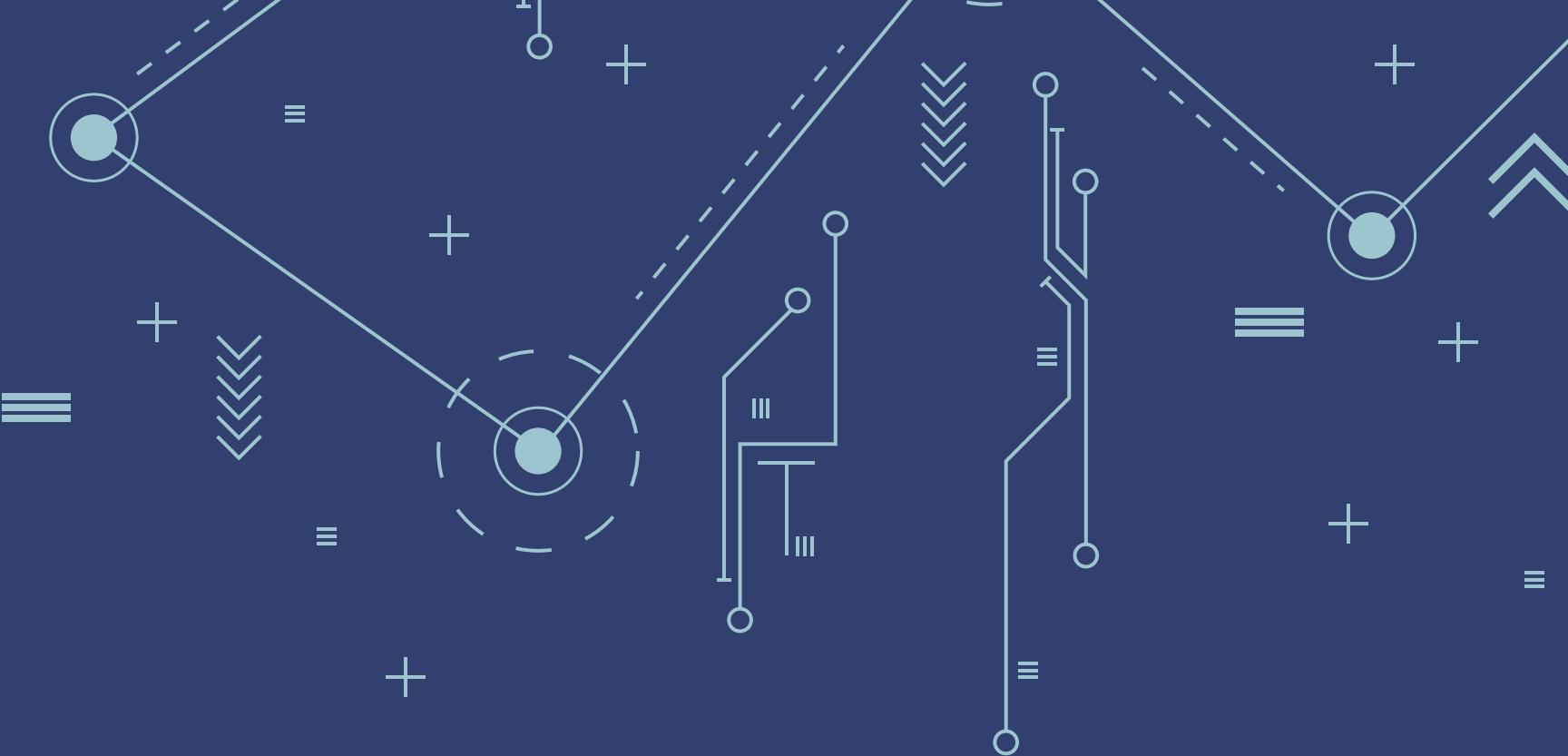
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Future Plans

Collaborate with current popular video communication companies such as Zoom, Skype, Google meet to use our feature to empower people with hearing disability.





Impacts



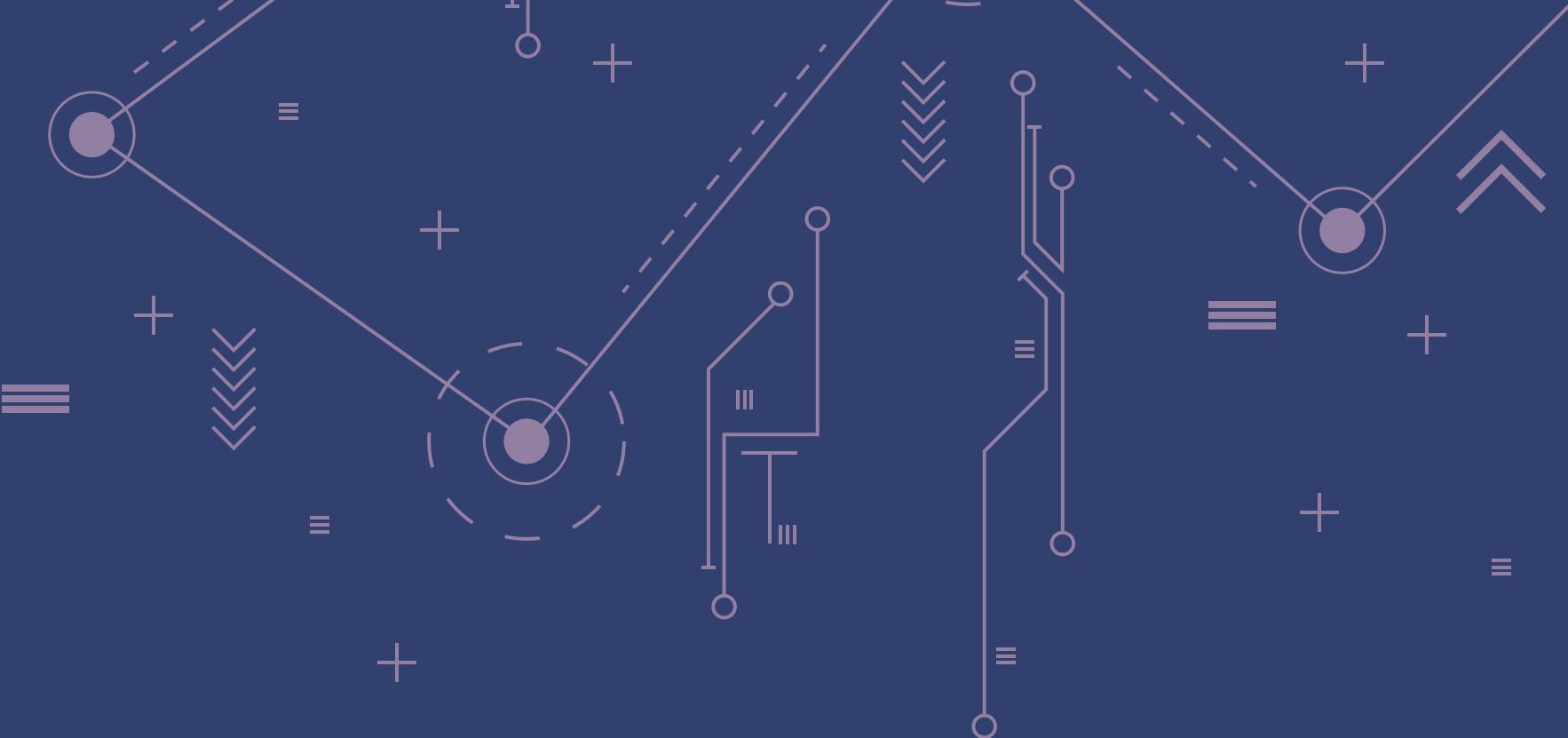
By equipping hearing-impaired people with the skills they lack, we seek to ease their daily tasks.



Making hand language ubiquitous and accepted in people's daily lives would enable us to build a more inclusive society and encourage customers to be more patient.



We would like to create a society in which nobody is excluded due to their impairment and provide them the same opportunities for employment as others..



Roadmap

Moving forward, we hope to inculcate our website/app to bring it to everywhere. From making humans to better understand sign languages to machines and AI in the future.



Conclusion

We aim to increase awareness of the deaf people community and promoting the use of sign language to everyone.



Thank You

MAKING DEAF
COMMUNITY SOUND

**Thank You
MAKING DEAF
COMMUNITY SOUND**

