SIGN LANGUAGE RECOGNITION

Do you understand what they are talking?

CREATED BY :

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GUIDE :

DR. SHUBHANKAR MISHRA

PROBLEM STATEMENT

Interaction of Mute people with normal people

Do they communicate without any hesitation ?

Lifestyle of deaf and mute individuals

Effect of their inability in lifestyle.
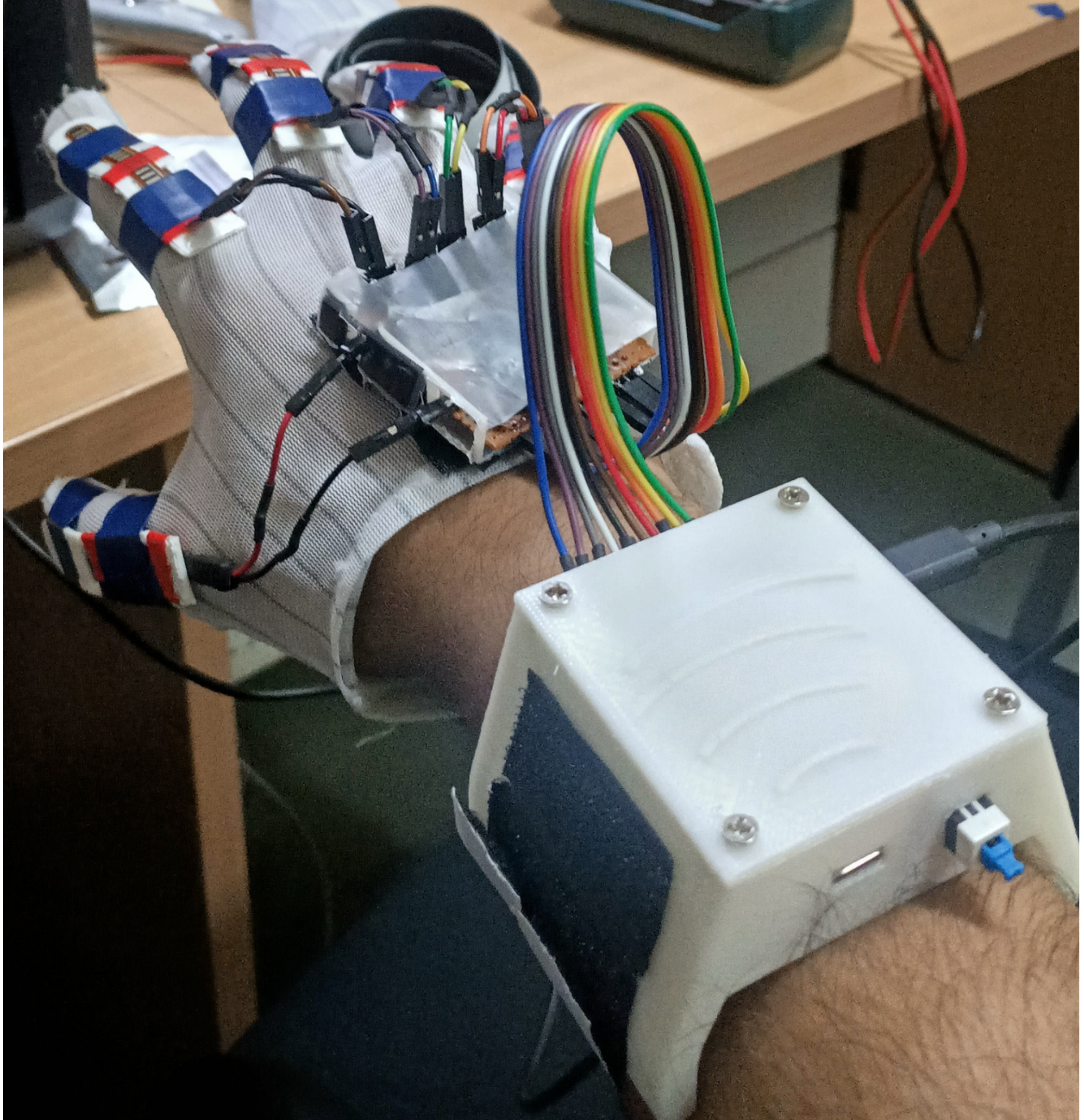
Communication gap

Feeling of frustration or exclusion from society.

MOTIVATION BEHIND THE PROJECT

OUTCOME/
DELIVERABLE

HOW THIS WILL WORK?

WHY SHOULD YOU USE BOTH IMU SENSOR AND FLEX SENSOR ?

Bye-bye

LEARNINGS

at niser

Communication with node mcu	3D designing and printing	Wireless communication	Different softwares and libraries
Learnt about inter communication between two or more node mcu	learnt about softwares of 3d designing and printing machine.	server client communication with hardware and software	pytorch, colab, onshape, flask...

DIFFICULTIES

server client communication

designing of fingers with measurement

overall component placements
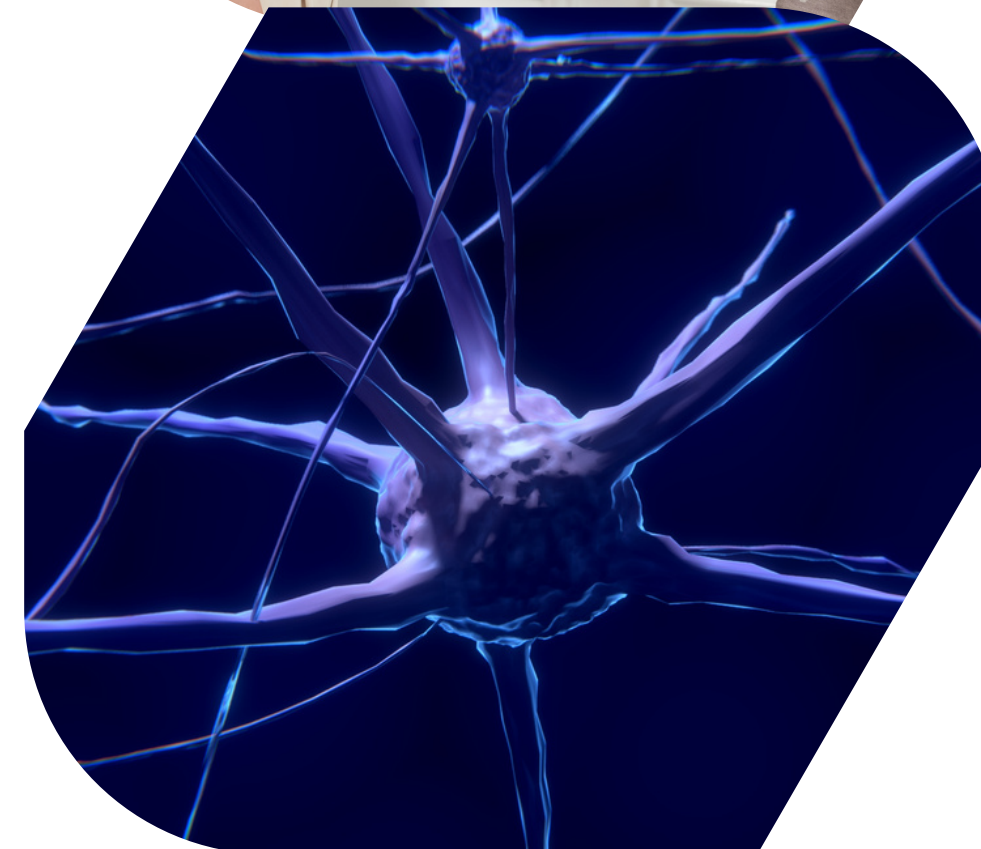
microcontroller selection

structured data output

TARGETED APPLICATION

- Every stage of life of a disabled person.
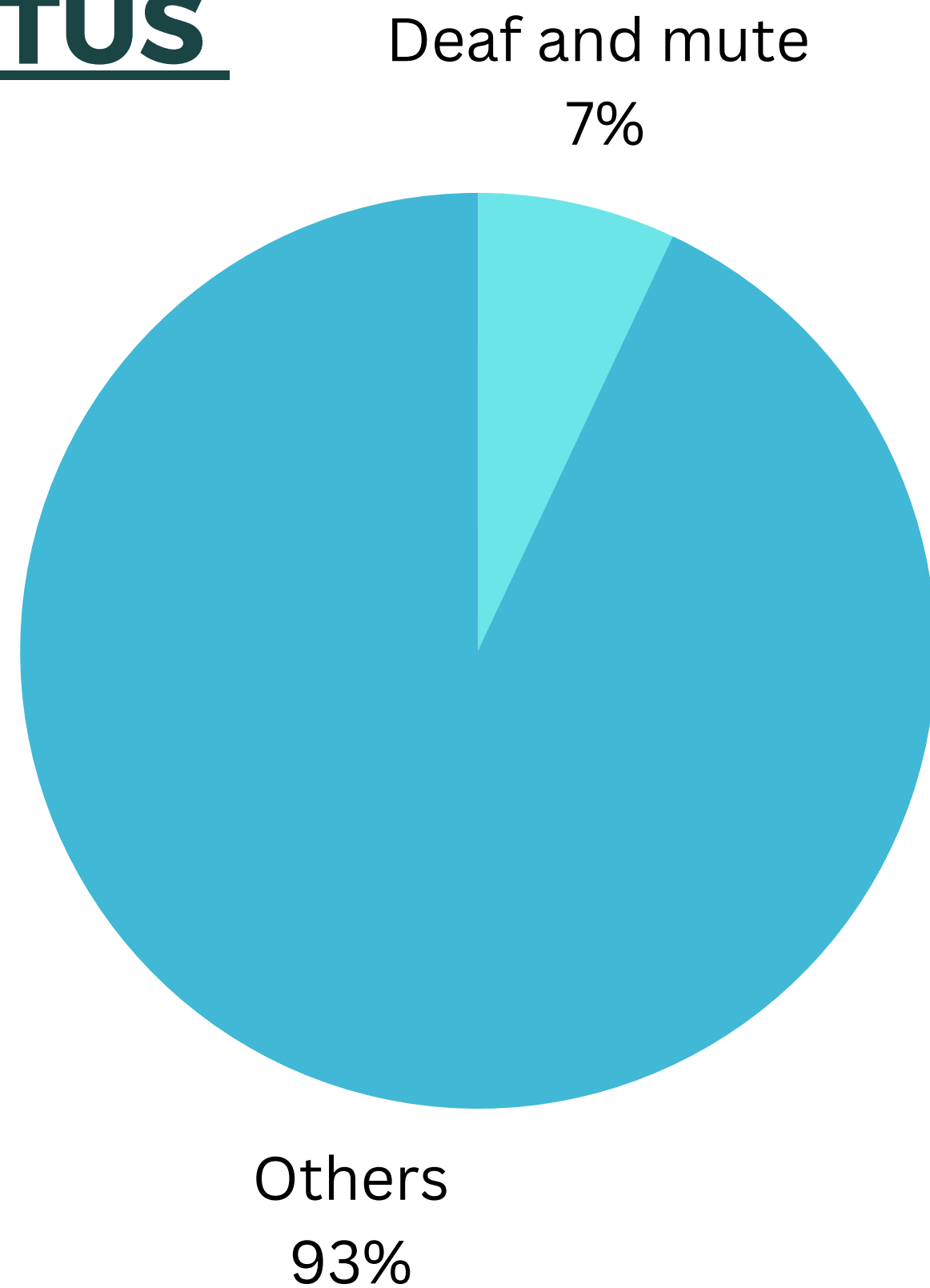- In communication between disabled people or disabled and able people.

RESEARCH AREA

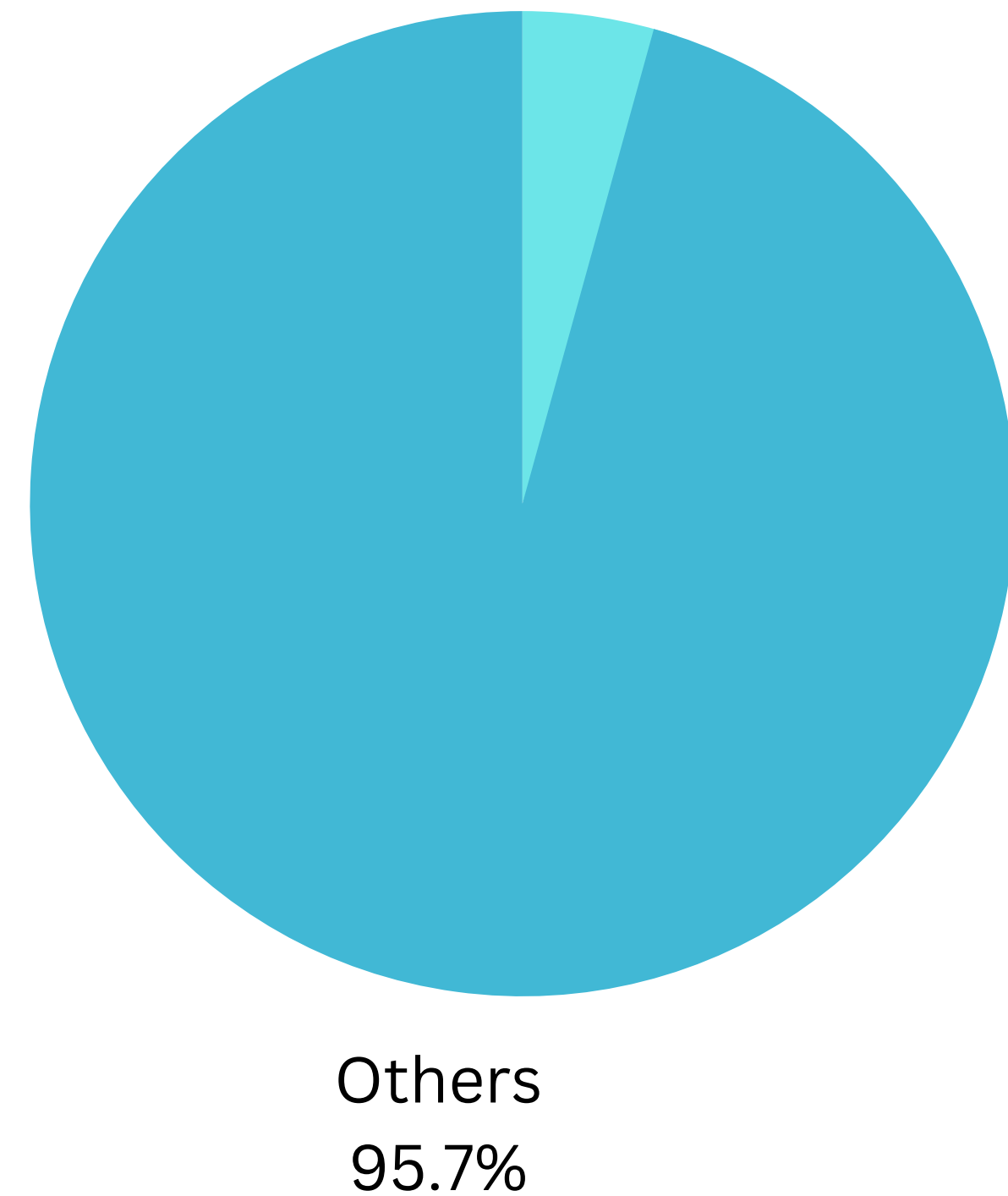- Neural technology
- Developement of sensors

INTERNATIONAL STATUS

Deaf and mute
7%

Others
93%

NATIONAL STATUS

Deaf and mute
4.3%

Others
95.7%

SPECIAL THANKS...

ARITRA MUKHOPADHYAY

GIRIJA SANKAR RAY

SANDIPAN SAMANTA

DR. SUBHANKAR MISHRA

AND RTC TEAM..

THANK YOU FOR YOUR ATTENTION !

I WELCOME ANY QUESTION OR FEEDBACK..