

Aid communication with Deaf

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Outline

- 1 Introduction
- 2 Research Problem
 - Problem Definition
 - Impact of Problem
- 3 Research Goals
 - What is our Main Goal?
 - Research Questions — Methodology
 - Expected Outcomes
 - Development Methodology

Introduction

Research title: Towards a system to aid communication with Deaf

Deaf are people who cant talk
and hear,they use sign Language to communicate.
We are doing this research to find a systematic
way for enabling Deaf to understand people thoughts.



Continue...

Research title: Towards a system to aid communication with Deaf

- Our claim is that if we translate people thoughts to sign language using some modern technologies, this could be a new revolution in our existing communication systems.
- As an example Deaf would be able to understand ordinary people thoughts and they will have access to almost everything that we use.(e.g: phones ,TV ,Radio ,Videos and ...)

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Communication with Deaf

- hearing people think that Deaf can access any necessary information by reading it in written form, and if they really need to communicate, they can always write their message down.[3]
- According to survey in 2015, there are 121 deaf sign languages in the world. But there is not such an efficient mechanism where deaf can easily understand people thoughts. [1]
- TESSA [2]

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Gap between Deaf and others

- Deaf are losing their moral.
- Deaf dont have access to facilities and opportunities as much as normal people.

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Aid Communication with Deaf

- suggest an efficient mechanism that deaf can easily communicate with normal people to understand their thoughts. .
- deaf is a part of society and they need to make a connection with people around them.

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Research Question — Methodology

- How our solution will reduce the gap between Deaf and others?
- What are specific characteristics in Deaf Culture?
Methodology: Literature Review, Observation, Interview, Case Study
- Which ways are convenient to include deaf in technology?
Methodology: Study of existing Experiments, Conduct Workshop
- What factors can affect the communication between Deaf and others?
Methodology: Comparative Analysis
- Which Modules are appropriate and useful for creating an automatic system to communicate with Deaf?

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Expected Outcomes

- We will have a brief analysis of deaf communication systems and we will suggest an effective mechanism that can be efficient in deaf communication.
- We will describe how technology can facilitate this mechanism.

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Development Methodology

- Agile Methodology.
- Gathering the datasets.
- Train and Test the system.
- Animating. .

References |

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- [3] M. Maiorana-Basas and C. M. Pagliaro. Technology use among adults who are deaf and hard of hearing: A national survey. *Journal of deaf studies and deaf education*, 19(3):400–410, 2014.