

IDEATION PHASE

LITERATURE SURVEY

DATE	12NOVEMBER 2022
TEAM ID	PNT2022TMID25716
PROJECT NAME	Real-time communication system powered by AI for specially Abled
MAXIMUM MARKS	2 Marks

REAL TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED PERSONS

LITREATURE SURVEY- 1

NAME:A survey about deaf and dumb assisting system

YEAR:2020

ABSTRACT:

In this paper we tend to represent sensible forearm band for deaf and dumb patient. Concerning 9 billion individuals within the world are deaf and dumb. The communication between a deaf traditional visual individuals. This creates a awfully very little area for them with communication being a basic side of human life.

ADVANTAGES:

- The primary advantage is that the device can be carried out easily because of its low weight.

DISADVANTAGES:

- Easily exposed to noise Deployment of the environmental sensors based systems is limited to indoor environments.

LITERATURE SURVEY-2

NAME:Accessibility to electronic communication for people with cognitive disabilities.

YEAR:2019

ABSTRACT:

The purpose of this study was to identify and synthesize measures for accessibility to electronic communication for people with cognitive disabilities by seeking answers to the following research questions: What measures to make electronic communication accessible to people with cognitive disabilities are evaluated and reported in the scientific literature? What documented effects do these measures have? Empirical studies describing and assessing cognitive accessibility measures were identified by searches of 13 databases.

ADVANTAGES:

- Low cost: Electronic communication saves time and money.

DISADVANTAGES:

- Humans cannot develop artificial intelligence because it is a technology based on pre-loaded facts and experience.

LITERATURE SURVEY- 3

NAME: A survey on advanced technology for communication between deaf/dumb people using eye blink sensor & flex sensor.

YEAR: 2018

ABSTRACT:

The problem that our society faces nowadays is that people with disability are finding hard to grapple with the fast-growing technology. The access to communication technologies has become essential for the handicapped people. Normally deaf/dumb people use hand gestures for exchanging information and they find hard to deal with people who can't grasp the idea of sign language. And therefore they can't communicate with normal people.

ADVANTAGES:

- Some of the most technologically advanced companies engage with users using digital assistants, which eliminates the need for human personnel. Many websites utilize digital assistants to deliver user-requested content.

DISADVANTAGES:

- The ability to create a machine that can simulate human intelligence is no small feat.

LITERATURE SURVEY-4:

NAME: Hand gesture recognition based on deep learning

Year:2017

ABSTRACT:

This paper realizes the segmentation of hand gestures by establishing the skin color model and AdaBoost classifier based the according to the particularity of the skin for hand gestures,as well as the denaturation of hand gestures with one frame of video being cut for analysis.In this regard,the human hand is segmented from the complicatedbackground,the real-time hand gestures tracking is also realized by CamShift algorithm.

ADVANTAGES:

- It helps in understanding the people of deaf and dumb.

DISADVANTAGE:

- Accuracy of hand gesture recognition may be varying due to no-standard background.

LITERATURE SURVEY-5:

Year:2016

NAME: Perceptions of communication between people with communication disability and general practice staff.

Abstract:

To explore consultation between people with communication disability and General Practice (GP) staff from the perspectives of both patients and staff. Communication disability causes a particular problem in primary care. This issue has not yet been investigated from the perspective of both patients and GP staff.

ADVANTAGES:

- In practically every field, AI is the driving force behind numerous innovations that will aid humans in resolving the majority of challenging issues.

DISADVANTAGES:

- A big disadvantage of AI is that it cannot learn to think outside the box. AI is capable of learning over time with prefer data and past experiences but cannot be creative in its approach.