

REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED

LITERATURE SURVEY

[1]AAWAAZ: A Communication System for Deaf & Dumb by Anchal Sood. Anju Mishra (2016)

The paper proposes a framework for recognizing hand gesture which would serve not only as a way of communication between deaf and dumb and mute people, but also, as an instructor. Deaf and dumb individuals lack in proper communication with normal people and find it difficult to properly express themselves. Thus, they are subjected to face many issues in this regard. The sign language is very popular among them and they use it to express themselves. Thus, there is a need of a proper translator. The deaf and dumb are not idle as past, they are working outside and doing great at it. So, an efficient system must be set up, to interact with them, to know their views and ideas. The framework here, act as a communication system for deaf and dumb individuals. It would take the sign language as an input which would display the result not only in the form of text but also in the form of audio. Similarly, if there is any input in the form of text, it would display the corresponding image.

Advantage:

- Early and accurate recognizing

Disadvantage:

- Lack of proper communication

[2] Full Duplex Communication System for Deaf & Dumb People by Shraddha R. Ghorpade, Surendra K. Waghmare (2015)

One of the important problems that our society faces is that people with disabilities are finding it hard to cope-up with the fast-growing technology. The access to communication technologies has become essential for the handicapped people. Generally deaf and dumb people use sign language for communication but they find difficulty in communicating with others who don't understand sign

Advantage:

- Fast Recognition

Disadvantage:

- Difficulty in communicating with others who don't understand sign

[3]Computer Technology Department, RTMNU, Nagpur, Maharashtra, India(2017)

An evolution of Information and Communication Technology has influenced every part of human life. It has modified the way we do the job, occupation, travel, acknowledge and convey. For the Deaf people group, the utilization ICT has enhance their personal satisfaction by creating frameworks that can help them discuss better with whatever remains of the world and among themselves. Gesture based communication is the essential method for correspondence in the almost totally impaired group. The issue emerges when hard of hearing individuals attempt to convey what needs be to other individuals with the assistance of these gesture based communication language structures and had habit a versa. The application gives hard of hearing individuals a method for getting more shut to cutting edge innovation by utilizing discourse to picture interpretation. This deaf individual to learn new advances by looking toward pictures which are being changed over to pictures by utilizing discourse acknowledgment framework.

Advantage:

- Deaf peoples has enhance to utilize personal satisfaction.

Disadvantage:

- The issue emerges when hard of hearing individuals attempt to convey what needs be to other individuals: