

# **Real-Time communication system powered by AI for specially Abled**

**Presented By....**

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## **Proposed solution**

### **Introduction:**

#### **Deaf and Dumb :**

The media and others in society sometimes use terms such as hearing impaired, deaf-mute, deaf and dumb, and hearing deficient to refer to deaf individuals. Within the Deaf community, these terms are seen as offensive because they imply that the deaf individual is “broken” or “inferior.” A generic and more widely accepted term is deaf and hard of hearing, which refers to all people with hearing loss. The term deaf may also be used in an all-inclusive manner to include people who identify as Deaf, deaf, deafblind, deafdisabled, hard of hearing, late-deafened, and hearing impaired

## **Problem Statement:**

Pradeep is deaf and dumb people who needs a easy way communicate with other because he doesn't want to feel like he is deaf-eared and word-deaf

## **Idea/Solution Description:**

- Hand gesture recognition system is widely used technology for helping the deaf people.
- Human hand has remained popular choice to convey information in situations where other forms like speech cannot be used
- We aim for developing an deaf and dumb gesture recognize system for establishing communication between the deaf and the dumb people.
- Hand gestures which can represent ideas using unique shapes and finger orientation have a scope for human machine interaction

## **Novelty:**

- Software based system for reducing communication gap.
- Low cost system available to everyone.
- System with extendable database

## **Social Impact:**

- Deaf and Dump peoples are ease to communicate with each others
- Deaf and Dump peoples are also feel like a normal pepole
- It will increase the confidence level of the deaf & dump people
- Communication between deaf-dump and normal person has always deficult that become ease from this project

## **Business Impact:**

- We sell that device with collaboratively deaf and dumb schools
- Can generate revenue through direct customers and collaborate with health care sector and generate revenue from their customer

## **Scalability of solution**

- ◆ The present work only includes recognition of ASL alphabets that can be further extended for ASL words and sentences
- ◆ Text sound converter IC may be used to speak the alphabets and words

- ◆ The system can further be added with the capability of transmitting the data