

**REAL-TIME  
COMMUNICATION  
SYSTEM POWERED BY AI  
FOR SPECIALLY ABLED**

## ABSTRACT:

In our society, we've people with disabilities. The technology is developing day by day but no significant developments are undertaken for the betterment of those people. Communications between deaf-mute and a standard person has always been a challenging task. It is extremely difficult for mute people to send their message to normal people. Since normal people aren't trained there signing. In emergency times conveying their message is extremely difficult. The human hand has remained a preferred option to convey information in situations where other forms like speech can't be used. Voice Conversion System with Hand Gesture Recognition and translation are going to be very useful to have a correct conversation between a traditional person and an impaired person in any language. The project aims to develop a system that converts the language into somebody's hearing voice within the desired language to convey a message to normal people, further as convert talking into comprehensible sign language for the deaf and dumb. We are making use of a convolution neural network to make a model that's trained on different hand gestures. An app is made which uses this model. This app authorize deaf and dumb people to send their information using signs which get converted to human-comprehensible language and speech is given as output.

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