Real-Time Communication System Powered by AI for Specially Abled

Problem Statement

Ram is a Specially Abled Person (dumb) who needs to communication with others easily. Generally dumb people use sign language for communication, but they find difficulty in communicating with others who don't understand sign language. So there is a barrier in communication between these two communities. Voice Conversion System with Hand Gesture Recognition and translation will be very useful to have a proper conversation between a normal person and an impaired person in any language.

Who does the problem affect?	People with Deaf and dumb problem
What are the boundaries of the problem?	While communication with Others(don't know sign language)
When does this issue occur?	The issue occurs when the specially abled person communicates with a normal person.

Where is the issue occurring?	While going to new place , talking to family friends and others
Why is it important that we fix this problem?	Because they have to feel like a normal person.don't struggle to explain something.
What solution to solve this issue?	Develop a system that converts the sign language into a human hearing voice in the desired language to convey a message to normal people, as well as convert speech into understandable sign language for the deaf and dumb.
What methodology was used to solve the issue?	Use of a convolution neural network to create a model that is trained on different hand gestures. An app is built which uses this model.