



MISFITS

SilentTalks

Who was once silent, will talk now
Theme: HealthCare

PROBLEM STATEMENT

American Sign Language (ASL) is a visual language. The shape of the hands can be used to convey the message. People who doesn't know ASL find it really hard to understand dumb people.

PROPOSED SOLUTION

CNN

Prediction of the ASL gesture
using Convolutional Neural
Networks

Text to Speech


Conversion of the predicted text
into speech for better
effectiveness

TECH STACK




Tensorflow &
Keras

Neural Network
Creation in
Python's Keras



OpenCV
Video analysis
using OpenCV



Win32com
Conversion of text
into speech

WOW Factor!!!

The translation from ASL to spoken english occurs in Real Time.

FUTURE WORK

Dynamic Gestures

Complex Words can be conveyed using the motion of hand instead of just an image.

AutoCorrect & AutoCompletion

This functionality will help the user by increasing efficiency in the communication process.