

A Helping Hand For The Visually Challenged, Mute and Deaf people

Assignment - 1

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E1 Slot

Submitted To

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Title:

A Helping Hand For The Visually Challenged, Mute and Deaf people

Problem Statement:

A well-developed application for helping/aiding the people who are visually challenged by creating a Braille system, people with hearing impairments and mute by implementing an aiding system where they'll be able to communicate using hand gestures which will be recorded by our application and then will be converted into text all using Image processing.

Motivation:

People have been facing a lot of difficulty regarding various matters, especially disabled people. Blindness is one of the most, if not the most, misjudged kind of handicap. The overall masses have their own pre-imagined notions about the blind people that they solidly accept to be valid without reaching out to a blind individual. A large portion of the individuals from the non-blind local area accept that the blind people can't manage their job or carry on with a typical life. 'My Son won't be a Beggar' by Ved Mehta is an ideal illustration of the contradiction of society's viewpoint and the truth of a blind individual's life.

Blind people do have an ordinary existence with their own way of getting things done. Yet, they most certainly face inconveniences because of difficult to reach framework and social difficulties. Allow us to have a compassionate gander at a portion of the regular routine issues, battles and difficulties looked by the blind people.

Exploring Around the Places

The greatest test for a blind individual, particularly the one with the total loss of vision, is to explore around places. Clearly, blind people wander effectively around their home with no assistance since they know the situation of everything in the house. People living with and visiting blind people should make a point not to move things around without advising or asking the blind individual.

Business spots can be made effectively open for the blinds with material tiles. In any case, sadly, this isn't done in the majority of the spots. This makes a major issue for blind people who should visit the spot.

Discovering Reading Materials

Blind people make some extreme memories discovering great reading materials in available arrangements. A large number of people in India are blind however we don't have even the legitimate course books in braille, leave alone the books and other relaxation reading materials. Web, the mother lode of data and reading materials, also is for the most part blocked off for the blind people. Despite the fact that a blind individual can utilize screen reading programming however it doesn't make the Internet riding experience exceptionally smooth if the sites are not planned appropriately. Blind individual relies upon the picture depiction for understanding whatever is addressed through pictures. Be that as it may, more often than not, sites don't give clear picture depiction.

Organizing Clothes

As a large portion of the blind people rely upon the articles' shape and surface to recognize them — orchestrating the clothing turns into a difficult errand. Albeit a larger part of blind people gadget their own strategy to perceive and organize basically their own garments however it actually is a difficult task. This turns into a thrill seeker task in case it's tied in with matching and organizing the socks. This is on the grounds that perceiving tones is practically incomprehensible for the people with all out blindness.

Getting Devices to Become Independence

The most important thing for a crippled individual is acquiring independence. A blind individual can have a free existence for certain explicitly planned versatile things for them. There are bunches of versatile hardware that can empower a blind individual to carry on with their life autonomously yet they are not effectively accessible in the neighborhood shops or markets. Refreshable Braille Display is an illustration of such valuable gadgets. A blind individual necessities to chase and invest a lot of energy to get every hardware that can make them one stride nearer towards independence.

Everybody faces difficulties in their day to day existence... blind people face much more. In any case, this surely doesn't imply that you can show compassion to blind people. They as well, actually like any individual, take up everyday routine's difficulties and experience a typical life, regardless of whether it doesn't appear to be ordinary to the located people.

Hearing loss can affect a person in 4 main ways:

1. Cognitive Decline

Hearing is a sense that you may not associate with other health problems but there is a connection. Brain health and cognitive function are the most serious examples. There is evidence that some conditions people connect with aging, like memory loss, might really be caused by hearing decline.

The brain has a fantastic ability to adapt to sensory changes, but that backfires when it comes to hearing loss. Sound is processed through the inner ear in a way the brain can understand if hearing is normal. It's that mechanism of hearing that permits you to identify the difference between the music coming from your car radio and the music the ice cream truck plays as it drives down your street.

Even if you're not aware of it, the brain encounters sound every microsecond. There is still ambient sound around you even if you are sitting in a quiet room, such as air hissing in through a vent. Your brain filters it out because it decides you don't need to hear it.

The brain comes to count on this stimulus. When there is loss of hearing, suddenly it doesn't get the same quantity or quality of sound. Thinking the missing sound should still be there, it struggles to find it. The stress on the brain and lack of stimuli can bring about cognitive decline that raises your risk of dementia later on in life. Seniors have a forty percent higher instance of memory loss and cognitive decline if they suffer from hearing loss, according to studies. Even more persuasive is the fact that people have been shown to increase their cognitive ability if they have hearing loss and invest in hearing aids.

2. Gut Issues

That seems like a stretch, but it's not. Hearing loss leads to changes which are associated with:

- Upset stomach
- Muscle tension

- Anxiety

3. Mental Health Problems

Over the years, the untreated hearing loss has been connected to many mental health conditions such as:

- Social withdrawal
- Irritability
- Anger
- Lack of focus
- Negativism

4. Relationship Troubles

Hearing loss creates problems in personal relationships, as well. A 2007 survey found 35 percent of the respondents with hearing loss had trouble maintaining relationships.

Project Outcome:

Our project will finally turn into a product as we'll be providing various services with the motive to help and play our part for the betterment of the community. We know the daily struggles faced by the disabled people and if at the end if we are able to reduce their problems even by a margin of 10%, we'll consider it as a success.

We'll be hoping that our website will be able to help the people suffering from the curses of this world so they won't give up and keep hustling.

