SIn the past couple of decades, technology has been at the forefront of every revolutionary change that is occurring at

both global and local levels. These techniques have led to ake the lives of humans much more simplified, smooth,

and even comfortable at different levels. Fro the age of the internet to the age of electric vehicles, technology and

especially engineering has led to inventions and major level improvements on each spectrum imaginable and even

beyond that. Especially in the past decade, the widespread use of the internet along with personal computing devices

has also brought major changes to the lifestyle of the people around the globe. From getting daily news updates to

booking flights to even groceries to our doorstep, the world has come a long way through the use of technology. The

new spectrum under research in technology is artificial intelligence, mostly abbreviated to AI. The world does not

want just machines to do what they are told but even expect devices to work like us. Machine Learning, a subsection

of AI, is the hottest technology right now being implemented o a daily basis and is to be supposed to reach its peak

in the next decade.

Now, as the world has become a better place by providing everything at ease through technology to humans, we

need to utilize the technology for differently-abled people. These people are blind, deaf, dumb, or those who suffer

from cognitive disabilities. The main aim is to make the internet easily accessible to differently-abled people, make

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**LITERATURE SURVEY PAPER:**

The technology to be used here would be object recognition, Optical Character Recognition(OCR)[2], text to

speech, speech to text conversions. These could be used in different forms. Object Recognition] is great computer

technology. Humans can easily detect and identify objects present in an image. The human visual system is fast and

accurate and can perform complex tasks like identifying multiple objects and detect obstacles with little conscious

thought [4-10].

Another technology to be used is Optical character recognition. OCR[2][16] (optical character recognition) is the

use of technology to distinguish printed or handwritten text characters inside digital images of physical documents,

such as a scanned paper document. The basic process of OCR involves examining the text of a document and

translating the characters into code that can be used for data processing. OCR is sometimes also referred to as text

recognition.

The combination of OCR and Object detection[1] is of application to the people with disabilities like being blind to

provide the sense of there surrounding and travel without any help or even be safe while traveling, providing

direction[17] through these things combined and provide feedback based whether there is some vehicle or something

in front on them.

These both can also be applied even to classroom learning, providing students with interactive learning for

students[13] who are blind to have a sense of their books and even what is being taught.

For people who are blind or dumb are not able to easily use their devices with ease. They could utilize their devices

like computers and mobile phones in a much better way if they could interact with these devices in the way they are

at ease. Blind people [1]would be much at ease to utilize their devices by providing speech commands to devices

rather than typing and scrolling and dumb people would be able to to use text format for interaction with others

through the help of their device rather than sign language, which are time-consuming and even not known to

everyone [11]. The converter of speech to text and text to speech[12] would make the interaction with the devices

and others for blind and dumb people better[18] with a conclusion.

The technology to be used here would be object recognition, Optical Character Recognition(OCR)[2], text to speech, speech to text conversions. These could be used in different forms. Object Recognition] is great computer technology. Humans can easily detect and identify objects present in an image. The human visual system is fast and accurate and can perform complex tasks like identifying multiple objects and detect obstacles with little conscious thought [4-10]. Another technology to be used is Optical character recognition. OCR[2][16] (optical character recognition) is the use of technology to distinguish printed or handwritten text characters inside digital images of physical documents, such as a scanned paper document. The basic process of OCR involves examining the text of a document and translating the characters into code that can be used for data processing. OCR is sometimes also referred to as text recognition. The combination of OCR and Object detection[1] is of application to the people with disabilities like being blind to provide the sense of there surrounding and travel without any help or even be safe while traveling, providing direction[17] through these things combined and provide feedback based whether there is some vehicle or something in front on them. These both can also be applied even to classroom learning, providing students with interactive learning for students[13] who are blind to have a sense of their books and even what is being taught. For people who are blind or dumb are not able to easily use their devices with ease. They could utilize their devices like computers and mobile phones in a much better way if they could interact with these devices in the way they are at ease. Blind people [1]would be much at ease to utilize their devices by providing speech commands to devices rather than typing and scrolling and dumb people would be able to to use text format for interaction with others through the help of their device rather than sign language, which are time-consuming and even not known to everyone [11]. The converter of speech to text and text to speech[12] would make the interaction with the devices and others for blind and dumb people better[18] with a conclusion.