

Literature Survey of Real time communication powered by AI For Specially abled person

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ABSTRACT

The project aims to 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. We are making 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. This app enables deaf and dumb people to convey their information using signs which get converted to human-understandable language and speech is given as output.

S.NO	TITLE	PROPOSED WORK	TOOLS /ALGORITHM	TECHNOLOGY	ADVANTAGES/ DISADVANTAGES
1.	Development of a web Application for Real time communication powered by AI for especially abled.	The application is developed to communicate Special persons (Deaf and dumb).	Python, Flask UI	Artificial Intelligence	Highly efficient
2.	Python for data Science and Data Wrangling Techniques.	To derive the datatypes of the application developed in the back end.	Anaconda Navigator	Artificial Intelligence	It gives 75% accurate
3.	Detection of Neural Networks.	To identify the action of neural network. The neural networks are emitted by brain. Then we can access the sign languages.	Anaconda Navigator, PyCharm. Google Collab.	Artificial Intelligence	Not 100% accurate

4.	Detecting neural networks by using Descent process.	To access the various sign languages and face languages are recognized by Gradient Descent, Stochastic Descent and Back propagation.	Anaconda Navigator, PyCharm. Google Collab	Artificial Intelligence	Using essentials of software, it gives 75% accurate
5.	To developing the Tensor flow and keras for loading back end of the application.	To know the considerations that to know about gestures through Artificial neural network and it was being tuned.	Anaconda Navigator, PyCharm. Google Collab	Artificial Intelligence	Time consuming
6.	To recognize the Convolution neural networks in the brain.	To know what are convolution neural networks, convolutional operations and to classify the images for gestures by using CNN.	Anaconda Navigator, PyCharm. Google Collab	Artificial Intelligence	Nearly to the higher state of efficiency.

7.	To recognize and knowing the Recurrent Neural networks.	To know the idea behind the recurrent neural networks and to know the variations of the neural networks.	Anaconda Navigator, PyCharm. Google Collab	Artificial Intelligence	Using essentials of software, it gives 75% accurate.
8.	Natural language processing	To make the natural language processing by using python and we use sentiment analysis using NLP.	Anaconda Navigator, PyCharm. Google Collab.	Artificial Intelligence	Using essentials of software, it gives 75% accurate
9.	To access the IBM Cloud & Watson AI Services.	To store the developing of the IBM cloud and we can build the machine learning model in Watson studio.	Anaconda Navigator, PyCharm. Google Collab, IBM CLOUD and IBM Watson.	Artificial Intelligence	Nearly to the higher state of efficiency.

10.	To build and deploy the AI Application model for Real time communication for especially abled person.	To deploy the different modules with the flask frameworks and integrating the deep learning model with web application.	Anaconda Navigator, PyCharm. Google Collab, IBM CLOUD and IBM Watson.	Artificial Intelligence	Availability of more scope
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Thank you