***ABSTRACT***

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| **Title of the Project :** | Sign Language Hand gesture detection using Machine Learning |
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**Abstract**

Sign Language and gestures is an emerging topic in today’s technologies. The main focus of this is to recognize the human gestures using mathematical algorithms for human computer interaction. With the help of computers, we can communicate with the people who are having hearing impairment. Each of these communicating software has their own limitations when it comes to adapting more versatile hardware in computers. Gesture recognition is one of the essential techniques to build user-friendly interfaces. Usually gestures can be originated from any bodily motion or state, but commonly originate from the face or hand. Gesture recognition enables users to interact with the devices by identifying the actions performed by the user. This project describes how hand gestures are trained to perform certain actions to reflect the actions of the output given by the user. Gestures are used to give the input and the output is calculated.