



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad
Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on

“Sign Language Translator”

Abstract

More than 70 million deaf and mute people around the world use sign languages to communicate. Sign language is a visual-manual language to convey the meaning instead of spoken words. Sign language allows them to learn, work, access services, and be included in their communities. People with inability to speak and hear use sign language for communication. It becomes difficult for people not familiar with the sign language to communicate with the people who are deaf/mute.

Since most people are unaware of sign language and interpreters are very difficult to come by we have come up with a system that recognizes sign language and converts it into text. This project would be helpful for better communication. The main objective has been achieved, that is, the need for an interpreter has been eliminated.

The goal is to make a model such that the image of the sign gets correctly converted to one of the 26 letters of the alphabet. The problem is to classify the images(input) into one of the 26 labels (26 Alphabets of English language). This project provides an efficient and accurate way to convert sign language into text. It uses image processing to recognize the gestures and convert to text using deep learning techniques.

H/W Requirements:

Processor: INTEL i7

Hardware and Ram capacity: 1 TB, 8 GB

S/W Requirements:

Language: Python

Platform: Windows 10

Development Tool: Keras

*Dept R&D: Yes / No

* If No: GNITS



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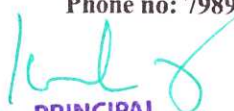
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