



Swami Keshvanand Institute of Technology, Management & Gramothan
Ramnagar, Jagatpura, Jaipur

Department of Computer Science & Engineering

Major Project (2022-23)

ABSTRACT

Title: Sign-Language Recognition System

Numerous technological advances and extensive research have aided deaf and hard-of-hearing individuals. The only means of communication with the deaf is through sign language, which poses a challenge for individuals who do not understand it.

To address this issue, we have developed a sign language recognition project that aims to bridge the gap between the deaf and ordinary people. Our basic idea is to create a system that allows mute people to communicate effectively with everyone else using standard touch-based communication.

We have developed a signal detector that can receive letters from A to Y. We utilized OpenCV, Keras, python, and TensorFlow modules in creating this project. Our system is not limited to a specific background and can function in any domain. The project uses a visual processing system to recognize English sign language used by the deaf and translate it into text that ordinary people can understand.

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