## IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 6, May 2025



## Gesture Based Communication Device for Speech and Text Conversion

## Mrs.D.Mohana<sup>1</sup>, Jegan K<sup>2</sup>, Saranian D<sup>3</sup>, Meena T<sup>4</sup>

<sup>1</sup>Assistant Professor, Electronics and Communication Engineering, T. J Institute of Technology, Chennai, India. <sup>234</sup>UG Scholar, Electronics and Communication Engineering, T. J institute Technology, Chennai, India.

Abstract: The message displayed will also help deaf people to understand their thoughts. This Sign language and facial expressions are the major means of communication for the speech flawed people. General people can understand the facial expression to an extent but cannot understand the sign language. Dumb people are unable to express their thoughts to normal humans. To reduce this gap of communication, this paper presents an electronic system which will help the mute people to exchange their ideas with the normal person in emergency situations. The system consists of a glove that can be worn by the subject which will convert the hand ges-tures to speech and prototype involves arudino as the micro-controller along with the groscopesenser.

Keywords: Gyroscope sensor, Esp 12 E, DF Player, Arduino UNO, lcd.

Copyright to IJARSCT www.ijarsct.co.in



DOI: 10.48175/IJARSCT-26750



527