



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

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Accredited by NBA & NAAC, an ISO 9001:2015 Certified Institution
Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

ON

“Kinesics”

ABSTRACT : The advent of sophisticated modern technology (i.e mobiles ,laptops , ipads etc) have made communication easier and quicker . This has helped the mankind to a great extent and they have now become its primal. These devices are connected with network and provides a seamless communication through network cellular services. These devices can be a big help for the people who are unable to communicate properly and even in emergency conditions. A differently abled person who is unable to speak or a person who speaks a different language, then these devices can be a boon for them as understanding, translating and speaking systems for these people. This chapter discusses a portable application based on hand sign recognition system which can be used by disabled people.

This paper aims at developing a system that uses Convolutional Neural Networks (CNN) and faster R-CNN to extract the patterns in the feature vectors of each sign of twenty-six alphabets and further uses the results to recognize those signs.

H/W & S/W Requirements

Software : Processing Libraries Mediapipe , Open CV ,TensorFlow , Numpy .

Hardware : High RAM. Webcam

*Dept R&D: ~~Yes~~ / No

*If No : GNITS



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