A

Major Project Report

On

UTILISING CONVOLUTIONAL NEURAL NETWORKS FOR SIGN RECOGNITION

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

in partial fulfillment of the requirements for the award of Degree of

Bachelor of Technology

in

Computer Science And Engineering

By

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"UTILISING CONVOLUTIONAL NEURAL NETWORKS FOR SIGN RECOGNITION"** is submitted by *A. Chandana (206Y5A0501), M. Jyothika(196Y1A0561), N. Shifa (196Y1A0567), P. Vinuthna(196Y1A0581)* in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering during academic year 2022-2023.

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ABSTRACT

Sign language plays a major role for dumb people to communicate with normal people. It is very difficult for mute people to convey their message to normal people. Since normal people are not trained on hand sign language. In emergency time conveying their message is very difficult. So the solution for this problem is to convert the sign language into human hearing voice. There are two major techniques available to detect hand motion or gesture such as vision and non-vision technique and convert the detected information into voice. In vision-based technique camera will be used for gesture detection. In this project non-vision-based technique will be used. Most of the dumb people are deaf also. So, the normal people's voice can be converted into their sign language.

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