VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA, BELAGAVI - 590018

A

PROJECT REPORT

On

SIGN-LANGUAGE RECOGNITION SYSTEM

Submitted in partial fulfilment for requirement for the award of the degree of

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE AND ENGINEERING

BY

NIHAR HEGDE	**4KV19CS051**
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

K.V.G. COLLEGE OF ENGINEERING SULLIA, D.K - 574 327

2022-2023

K.V.G. COLLEGE OF ENGINEERING, SULLIA, D.K.

(AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Dr. UJWAL U. J **Head of the Department** **Dept. of CS&E**	**Dr. SURESHA V** **The Principal** **KVGCE, Sullia**

Name of the Examiners **Signature with Date**

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ABSTRACT

A sign language recognition system built using computer vision and machine learning methods is presented in this research. Hand gestures are recognized by the system, which then translates them into written language. The suggested method extracts elements from video input and categorizes them as Sign Language motions using a convolutional neural network (CNN) architecture. The system is an effective tool for communication between the deaf and hearing communities because of its excellent precision and real-time performance. The suggested system has several potential uses, including assistive technology for the deaf, automatic sign language translation, and instructional aids for teaching sign language. The testing findings show how proficiently and reliably the suggested system can recognize Hand Gestures.

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