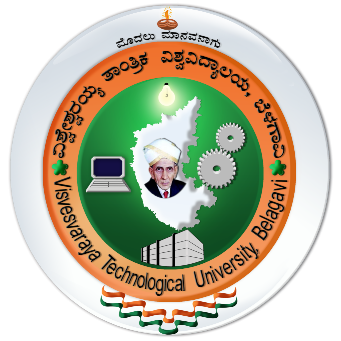
## VISVESVARAYA TECHNOLOGICAL UNIVERSITY

**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**

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*during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it been satisfying the academic requirement in respect of project work prescribed for the Bachelor of Engineering Degree.*

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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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