D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KASABA BAWADA, KOLHAPUR

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Year: 2020- 21)

A

Project Report
on
"Sign Operated -Alexa"

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Under The Guidance of
Mr. N. A. Haval

Class: TY (CSE)   Div.: C

D. Y. PATIL COLLEGE OF ENGINEERING & TECHNOLOGY, KASABA BAWADA, KOLHAPUR

CERTIFICATE

This is to certify that the project group consisting of following members have satisfactorily completed the project work entitled **"Sign Operated-Alexa"** at TY (CSE) semester – VI as prescribed in the syllabus of Shivaji University for the academic year 2020-2021.

Sr. No.	Name	Exam No.
1	Mr. Disale Vijay Kiran	7223
2	Miss. Karande Nilam Vitthal	4503
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Date:

Place: Kolhapur

Mr. N. A. Haval   **Prof. B. D. Jitkar**   **Prof. Dr. Santosh. D. Chede**
(Project Guide)   **(HOD)**   **(Principal)**

External Examiner

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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(Year: 2020 - 21)

Project Title: Sign Operated-Alexa

OUTLINE OF PROJECT

"Special people", that is people who have difficulty in speaking and hearing "The dumb" and "The deaf" people respectively find it difficult to understand what exactly the other person is trying to express and so with the deaf people.Sometimes people interpret these messages wrongly either through sign language or through lip reading or lip sync.The Main challenges that this special person facing is the communication gap between special person and normal person.

The aim of this project is to develop a module that can convert the hand gestures into text. The focus of this project is to use deep learning technique to be applied over a dataset of static hand gesture images and infer appropriate result and later to be converted into text.The method gives output in text format that helps to reduce the communication gap between deaf-mute and people.

We are focusing that this module will help to interact with deaf and dumb person at places such as Shops, Hospitals, Police headquarters etc. "Sign Operated-Alexa" will act as strong bridge of communication between normal people and deaf & Community.

ACKNOWLEDGEMENT

It is with great elation and enthusiasm that we represent this project report. We tried our best to touch all the aspects of this subject. Firstly, we like to thank our respected Principal **Prof. Dr. S. D. Chede** for their motivation.

We express our sincere thanks and gratitude to our estimated guide **Mr. N. A. Haval** whose valuable guidance, supervision and inspiration proved to be of greater help.

The acknowledgment will not be complete without the mention of **Prof. Dr. K. V. Kulhalli** for her vital suggestions throughout the completion of work.

At the end, I obliged to all people who directly or indirectly helped us.

Date:
Place: Kolhapur

Sr. No.	Name	Sign
1	Mr. Disale Vijay Kiran	
2	Miss. Karande Nilam Vitthal	
3	Miss. Miraje Rajeshwari Vasudev	
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