Blind-Face

## A PROJECT REPORT

***Submitted by***

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***In partial fulfillment for the award of the degree***

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***Under the Guidance of***

***Assistant Professor***

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**CERTIFICATE**

This is to certify that the project work entitled **“**Blind-Face Assistant for blind people**”** for subject Project-I (03108401) of 8th Semester, Group No. **PUIT\_21** has been successfully completed by VIKASKUMAR DARJI (160303108018), RISHI JOSHI (160303108042), KRUPALI KUMBHANI (160303108052)in partial fulfillment of the Bachelor of Technology (B. TECH.) in Information Technology of Parul University in Academic Year 2019-2020 is a record of the group of above student’s own work carried out by them under my supervision and guidance. Information derived from the published work of others has been acknowledged in the text and a list of references is given*.*

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| --- | --- |
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**ABSTRACT**

*The World Health Organization (WHO) reported that India currently has around 12 million blind people against 39 million globally, which makes India home to one-third of the world’s blind population.* *Good vision is a precious gift but unfortunately loss of vision is becoming common. To help the blind people the visual world must be transformed into the audio world with the potential to inform them about objects as well as Expression of People. There have been several systems designed to support visually impaired people and to improve the quality of their lives. Unfortunately, most of these systems are limited in their capabilities. In this paper, we present a Blind Face Assistant, using this Blind people can simply live their daily life. Our aim is to identify the person expression and notify about obstacles. In Blind Face assistant capture photo and do processing on image. In processing first assistant detect identification of person using LBP and identify obstacle than classify it using SVM, after that person can audible outcome by using headphones.*

*Keyword: PI Camera, Image processing, feature extraction, Classification,*

*Text to Audio Converter*

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# FUTURE WORK

In future work, We are try to add some more function that will help for blind person like Start To Assists Blind Person Using Voice and find the distance of object.

We try to implement some more features such as hand gesture system. It will turn on fan, light, AC, TV, etc. and try to implement a chat application using voice and blind person can Shopping online using this app.

Now our main work is to implement face recognition and face expression detection in below phases:

* + - Hardware Design

In this we decide what type of hardware used in our a project and it will give advantages to our project.

* + - Coding

Implementation of whole application will be done in next semester.

* + - Deployment

After implementing application next step will be the to deploy application

* + - Testing

Once deployment is done testing will need to be done.

# 

# CONCLUSION

Hence, we are concluded that “Blind-Face” Assistance will be great system for a blind person in digital world. Now a day, Image Processing is very famous technology, which is very help for extracting information from image. Blind person’s life can be more flexible and relaxed with image processing acting as medium and blind person can identify person expression and communication with other in easy way. They also avoid obstacles using this Device. so that they can't get injured by this type of obstacles in a way. so, our motive is to help the blind person using this device.

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