Kammavari Sangham (R) 1952, K.S.Group of Institutions

K S INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi, Accredited by NAAC & IEI)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Project work phase 1 (18CSP77)

"Face Mask Detection"

By Batch 2021_CSE_11

SUDHAKAR YASWANTH [1KS18CS101]
VINOD H MALALI [1KS18CS118]
PRATEEK HAVALE [1KS18CS070]
YASHWANTH K [1KS18CS121]

Under the Guidance of

Mrs. SOUGANDHIKA NARAYAN
Assistant professor
Dept. of CSE

CONTENTS

OVERVIEW

- Coronavirus disease 2019 (COVID-19) has globally infected over 2.5 billion people causing over 5 million deaths.
- Individuals with COVID-19 have had a wide scope of symptoms reported – serious illness.
- Fever, dry cough, tiredness, loss of taste and smell are the major symptoms of coronavirus
- Respiratory problems like difficulty in breathing.
- Elder people having lung disease can possess serious complications from COVID-19 illness as they appear to be at higher risk.

OVERVIEW(cont....)

- Many precautionary measures have been taken to fight against coronavirus. Among them cleaning hands, maintaining a safe distance and wearing a mask.
- In order to protect ourselves from the COVID-19 Pandemic, almost every one of us to wear a face mask.
- It becomes necessary to check if the people wear face mask in most public gatherings such as School, College, Malls etc.

GOALS

- To detect whether a person is wearing a mask properly or not.
- Detect mask with accuracy.
- This method will also detect a face along with a mask in motion.
- Plot the graph to check accuracy.

APPLICATIONS

Can be used in :

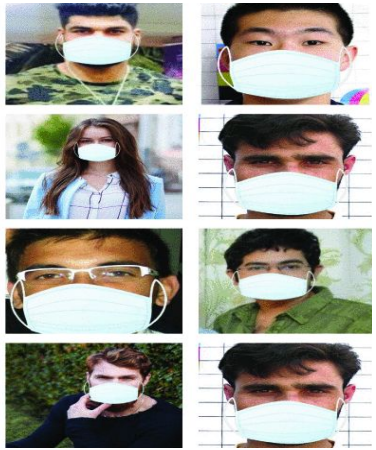
- Schools
- Colleges
- Malls
- Theaters
- Hospitals

REQUIREMENTS

- Operating system : Windows or Linux
- IDE : Anaconda Navigator
- Python Libraries
- Images to train
- Webcam
- Language : Python

DATA SET

- Two datasets will be used to implement.
- Dataset will contain two types of data, Dataset 1 consists images with people wearing mask. Dataset 2 consists images with people who do not wear mask.



REFERENCES

- https://www.kaggle.com/ashishjangra27/face-mask-12k-images-dataset
- https://keras.io/api/preprocessing/image/#imagedatagenerator-class
- https://www.tutorialspoint.com/tensorflow/index.htm
- https://www.javatpoint.com/opencv
- A. Das, M. Wasif Ansari and R. Basak, "Covid-19 Face Mask Detection Using TensorFlow, Keras and OpenCV," 2020 IEEE 17th India Council International Conference (INDICON), 2020, pp. 1-5, doi: 10.1109/INDICON49873.2020.9342585.

Thank you