

G. Narayanamma Institute of Technology & Science

(For women)

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(An ISO 9001:2015 Certified Institution)

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Department of Computer Science & Engineering

A-7



FACE MASK DETECTOR

BY

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ABSTRACT

This project endeavors to develop a detector to identify a person not wearing a face mask. As the pandemic is unceasing yet, as a gesture to help improve this situation, this app identifies a person not wearing a mask and alerts them to instantly wear one. This system will detect any person not wearing a mask and catalogues them if registered by giving their prime details (Name, photo, contact details at least).

This project is built on Machine learning and Image processing concepts using Python language with Django framework. As for the back-end, the database used here is MySQL, storing details of registered organization members. We use HTML, JavaScript, and CSS to bring it as user-friendly as possible.

As the global pandemic, COVID-19, has taken over the world, putting on a mask in public places is a measure to limit the spread further. This app works to warn people to wear their masks in public places. On detecting someone not wearing a mask, the system identifies the person and alerts them by sending a message to their phone to wear a mask. On a count of 3 warnings, the user gets a forfeit alert for not following the rules, summing up the eminence of wearing a mask in public places.

SYSTEM REQUIREMENTS:

Software Requirements:

Platform	-	WINDOWS 10
Front End	-	HTML, CSS, JAVASCRIPT
Development Tool	-	VISUAL STUDIOS AND GOOGLE COLAB
Back End	-	MYSQL, PYTHON, SCIKIT-LEARN

Hardware Requirements:

Name of the Processor	-	INTEL, Core i7, 8 th Gen
Hard Disk Capacity	-	500 GB
RAM Capacity	-	16 GB