



EAST WEST UNIVERSITY

Project Report 01

Project Name: Face Mask Detection

Course Title: Machine Learning

Course Name: CSE 475

Section: 02

Semester: Fall 20

Submitted to:

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Submission Date: 28/10/2020

Face masks Detected

The world is fighting with Covid19 pandemic. There are so many essential equipment needed to fight against Corona virus. One of such most essential is Face Mask. Firstly face mask was not mandatory for everyone but as the day progresses scientist and Doctors have recommended everyone to wear face mask. Now To detect whether a person is wearing Face Mask or not, we will use Face Mask Detection Technique. we will see many important aspect of face mask detection not only for Covid19 cases but also for other regular cases. Utilizing Face Mask Detection System, Hospitals can screen if their workers are wearing masks during their work day or not. In the event that any health worker is found without a mask, they will get a warning with a suggestion to wear a face mask. we have seen the different types of application of Face Mask Detection technique. Hope this will help us to understand the importance of wearing masks. We wish you all a good health and hope we will be able to a corona-free world sooner.

Face Mask Detection is going to be the leading technology in both retail and corporate sectors as well. In this scenario of Covid19, a low investment Face Mask Detection it is here to stay for a long time. Also for Bank, Educational institute or for any other commercial, industrial or retail application of Face Mask Detection or any computer vision, do not hesitate to contact us.

In this project, we are going to see how to train a COVID-19 face mask detector. I will use Python Script to train a face mask detector The script additionally is divided into two parts: 1. Detect COVID-19 face masks from image, 2. Detect face masks in real-time. In order to effectively prevent the spread of COVID19 virus, almost everyone wears a mask during coronavirus epidemic. This almost makes conventional facial recognition technology ineffective in many cases, such as community access control, face access control, facial attendance, facial security checks at train stations, etc. Therefore, it is very urgent to improve the recognition performance of the existing face recognition technology on the masked faces. In project, we'll discuss our two-phase COVID-19 face mask detector, detailing how our computer vision/ML will be implemented. From there, we'll review the dataset we'll be using to train our custom face mask detector. I'll then show you how to implement a Python script to train a face mask detector on our dataset . I'll use this Python script to train a face mask detector and review the results. So overall this project will be helpful for all over the world.

