PROJECT SYNOPSIS

**COVID-19: FACE MASK DETECTOR USING PYTHON AND MACHINE LEARNING**

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* Objective

The main objective of this face mask detection system is to use our two-phase COVID-19 face mask detector, detailing how our computer vision/deep learning pipeline will be implemented. From there, we’ll review the dataset we’ll be using to train our custom face mask detector.

* Technical Details

First, we’ll show you how to implement a Python script to train a face mask detector on our dataset using Keras and TensorFlow.

We’ll use this Python script to train a face mask detector and review the results.

Given the trained COVID-19 face mask detector, we’ll proceed to implement two more additional Python scripts used to:

a. Detect COVID-19 face masks in images

b. Detect face masks in real-time video streams