**Velagapudi Ramakrishna Siddhartha Engineering College Department of Information Technology**

Class: 3rdYear Section: B Year: 2020-2021

**FACE MASK DETECTION**

**Motivation:**

The recent coronavirus pandemic has pushed people around the world to new challenges.Before countries lift their lockdowns, they would have to build solutions to check if all the preventive measures are followed by their people or not. There is no efficient face mask detection applications which are now in high demand for transportation means, densely populated areas, residential districts, large-scale manufacturers and other enterprises to ensure safety. By this thought, I tried to build Face Mask Detection to fight against Covid-19, using OpenCV and Tensorflow.

**Problem Description:**

Due to the present pandemic COVID-19, we have been facing a very bad phase.While healthcare professionals and scientists are learning more every day ,we know for a fact that the proper use of face masks has proven to be an effective measure in keeping spread rates from raising again, especially as cities and countries come out of lockdown. It is critical now that businesses accept the corporate responsibility to ensure that all staff and patrons are abiding by state and local face mask protection protocols, where applicable.

**Social Benefits:**

* Authorities can take necessary actions on people without face masks ensuring other employees safety.
* No additional expensive system is required

**Innovation and Uniqueness:**

Our system is build using Tensorflow, OpenCV, Keras and MobileNet. The model is accurate, and since the MobileNetV2 architecture is used, it’s also computationally efficient and thus making it easier to deploy the model to embedded systems

**Feasible Solution:**

This system can therefore be used in real-time applications which require face-mask detection for safety purposes due to the outbreak of Covid-19. This project can be integrated with embedded systems for application in airports, railway stations, offices, schools, and public places to ensure that public safety guidelines are followed. By this project we can ensure people’s safety by detecting people without masks.

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