**SUMMARY**

* The task so given is to detect if a person is wearing face mask or not
* I have trained a CNN using the tensoflow keras API to detect the features over the 5000 images in the dataset.
* The model trained is then used to get the predictions

**IMPROVEMENTS**

* The model trained is a very basic model and can be improved by enlarging the dataset.
* Decent amount of hyperparamter tuning can also help in improving the build model
* For more accuracy we can use the Tensorflow Object detection API which has pretrained models on the COCO dataset for 90 classes.
* These models can be further trained to achieve high accuracy
* Tensorflow object detection API supports latest state-of-the-art models and can be used to make mobile friendly detectors also