

Machine Learning Project: To Detect Face Mask on Humans

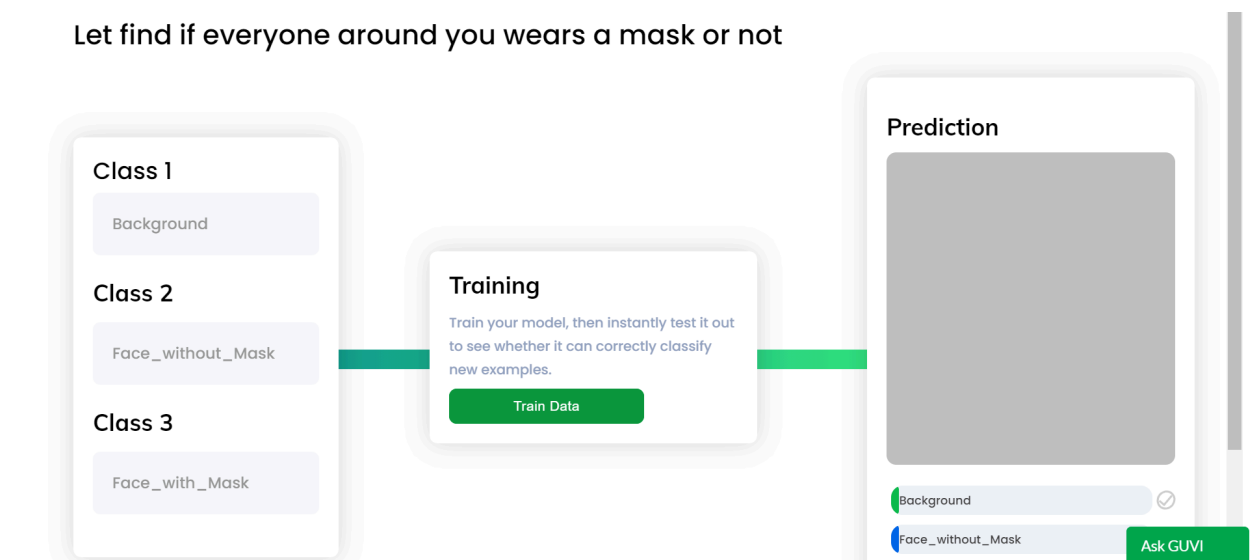
Manav Bahl

Aim: In this project, our objective is to successfully train, test the model to accurately detect if an individual is wearing a mask/not.

Procedure:

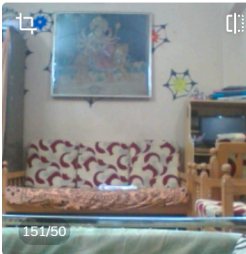
Training the machine to recognize the background, the face with and without the mask.

Let find if everyone around you wears a mask or not



Capturing the Background (Initial Step)

Switch Camera



151/50

Hold to Record

1. Record the examples of Background

Hold the Button and take at least 50 picture sample of Background. Make sure you give sameples in different ways

Cancel

Back

Next

Capturing the Face **without** the Mask

Switch Webcam



78/50

Hold to Record

2. Record the examples of Face_without_Mask

Hold the Button and take at least 50 picture sample of Face_without_Mask. Make sure you give sameples in different ways

Cancel

Back

Next

Capturing the Face **with** the Mask

Switch Webcam



109/50

Hold to Record

3. Record the examples of Face_with_Mask

Hold the Button and take at least 50 picture sample of Face_with_Mask. Make sure you give sameples in different ways

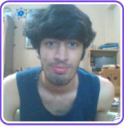
Cancel

Back

Next

Checking if all conditions are met and begin training the model


Background


Face_without_Mask


Face_with_Mask

Train Model

4. Train model

Okay! Now click "Train model" to process your images.

Cancel●●●●●BackNext

Testing the model


Background
Face_without_Mask
Face_with_Mask

5. Try it out!

Now try raising your hand up or down, and you should see the bars move accordingly. If it isn't working, click "Back" to adjust your examples or just click "Done."

Cancel●●●●●BackDone


Background
Face_without_Mask
Face_with_Mask

5. Try it out!

Now try raising your hand up or down, and you should see the bars move accordingly. If it isn't working, click "Back" to adjust your examples or just click "Done."

Cancel●●●●●BackDone

Conclusion :

The model is working with **100% Accuracy**

The project is hence successful.