Image Model

Teach Base on Images, From Webcam

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Abstract—this document is an Image Model Project in which we mark the percentage about image display.

Keywords—Image, percentage, preview (key words)

I. INTRODUCTION

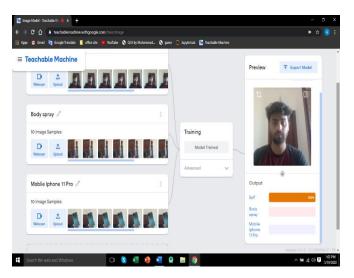
Image processing is a method to perform some operations on an image, in order to get an enhanced image or to extract some useful information from it. It is a type of signal processing in which input is an image and output may be image or characteristics/features associated with that image. Nowadays, image processing is among rapidly growing technologies. It forms core research area within engineering and computer science disciplines too.

Image processing basically includes the following three steps:

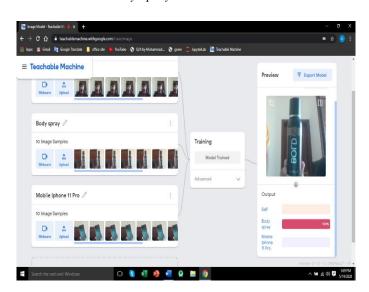
- Importing the image via image acquisition tools;
- Analyzing and manipulating the image;
- Output in which result can be altered image or report that is based on image analysis.

II. WORKING SCREENSHOT

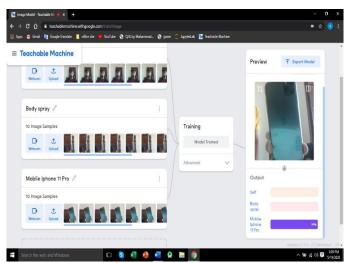
A. ScreenShot 1 Self



B. ScreenShot 2 Body Spray



C. ScreenShot 3 Moblie



III. SOURCE CODE (JAVA SCRIPT)

<div>Teachable Machine Image Model</div>
<button type="button" onclick="init()">Start</button>
<div id="webcam-container"></div>
<div id="label-container"></div>
<script
src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@1.3.1/di
st/tf.min.js"></script>

```
<script
src="https://cdn.jsdelivr.net/npm/@teachablemachine/image
@0.8/dist/teachablemachine-image.min.js"></script>
<script type="text/javascript">
  // More API functions here:
  // https://github.com/googlecreativelab/teachablemachine-
community/tree/master/libraries/image
  // the link to your model provided by Teachable Machine
export panel
  const URL = "./my_model/";
  let model, webcam, labelContainer, maxPredictions;
  // Load the image model and setup the webcam
  async function init() {
    const modelURL = URL + "model.json";
    const metadataURL = URL + "metadata.json";
    // load the model and metadata
    // Refer to tmImage.loadFromFiles() in the API to
support files from a file picker
    // or files from your local hard drive
    // Note: the pose library adds "tmImage" object to your
window (window.tmImage)
                                tmImage.load(modelURL,
    model
                      await
metadataURL);
    maxPredictions = model.getTotalClasses();
    // Convenience function to setup a webcam
    const flip = true; // whether to flip the webcam
    webcam = new tmImage.Webcam(200, 200, flip); //
width, height, flip
    await webcam.setup(); // request access to the webcam
    await webcam.play();
    window.requestAnimationFrame(loop);
    // append elements to the DOM
    document.getElementById("webcam-
container").appendChild(webcam.canvas);
    labelContainer = document.getElementById("label-
container");
    for (let i = 0; i < maxPredictions; i++) { // and class
labels
labelContainer.appendChild(document.createElement("div")
  async function loop() {
    webcam.update(); // update the webcam frame
    await predict();
    window.requestAnimationFrame(loop);
  // run the webcam image through the image model
  async function predict() {
    // predict can take in an image, video or canvas html
element
                                                    await
    const
                    prediction
model.predict(webcam.canvas);
```

IV. TECHABLE MACHINE

https://teachablemachine.withgoogle.com/models/A-q26kbad/

https://teachablemachine.withgoogle.com/train/image/1Jy4j NKH8GJOuamMoc0FP9VFlH8Gbmgcc

V. GITHUB CODE LINK

https://github.com/Mughal027/Image-Model/tree/master

VI. REFRERCENSE

https://teachablemachine.withgoogle.com/