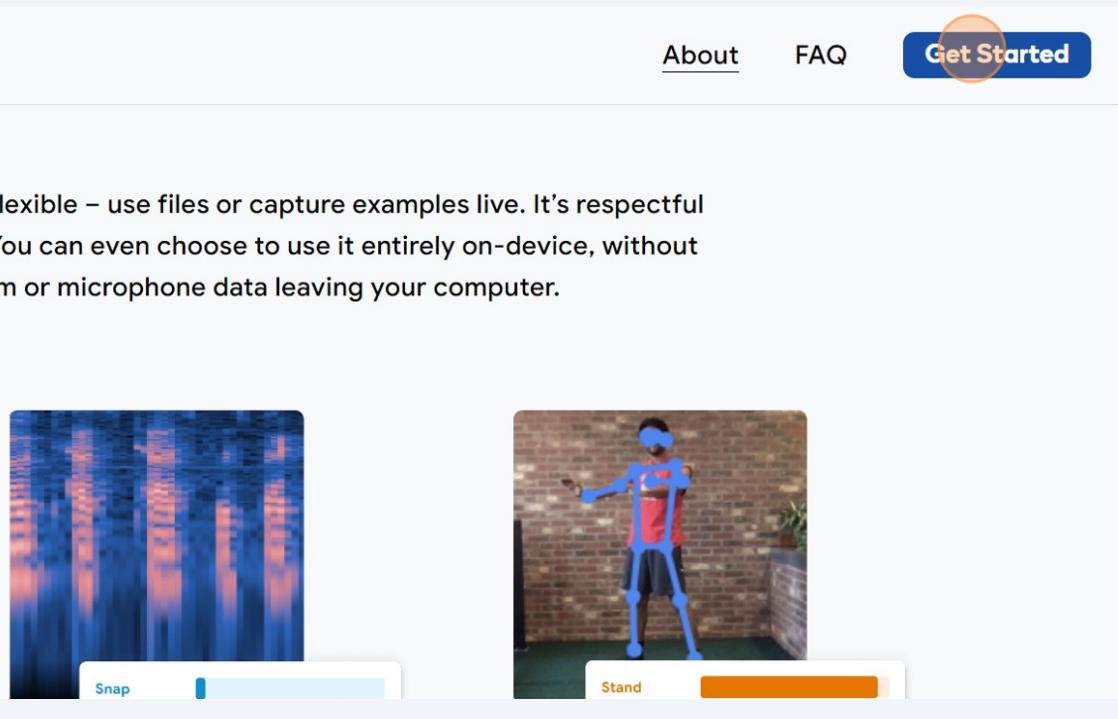


How to Teach a Machine to Recognize Happy and Sad Faces

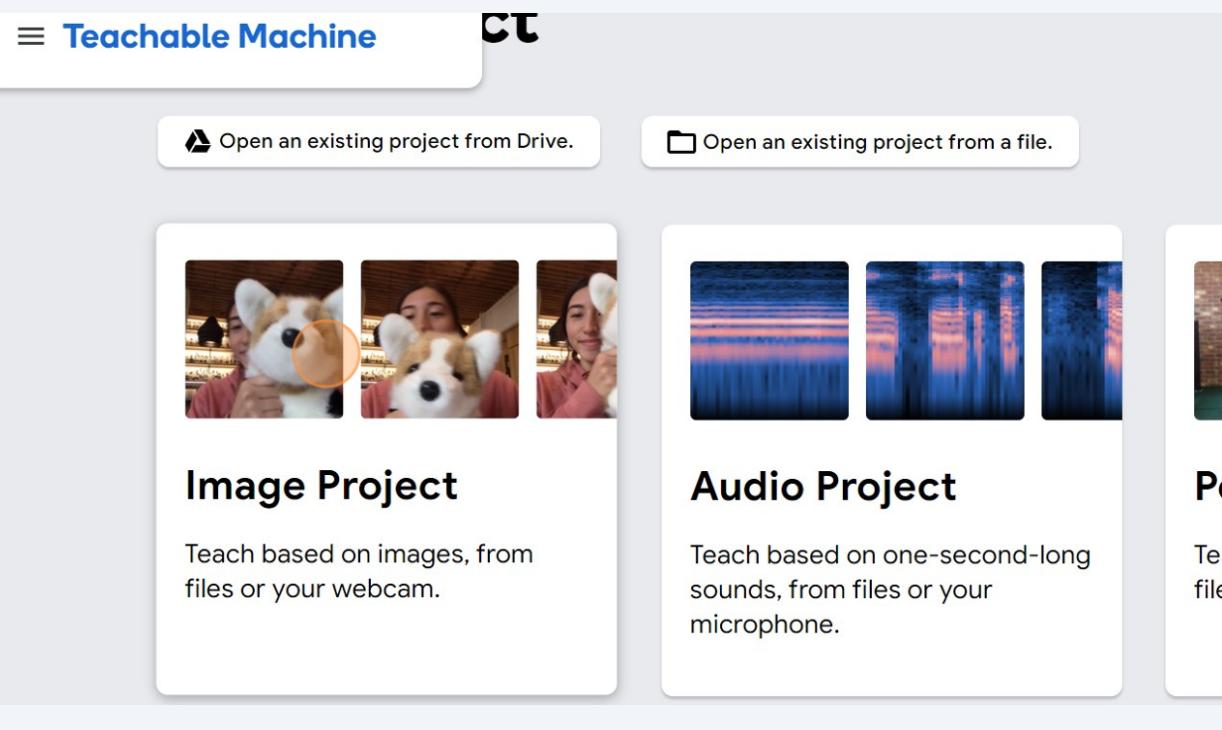
Scribe 

- 1 Navigate to <https://teachablemachine.withgoogle.com/>

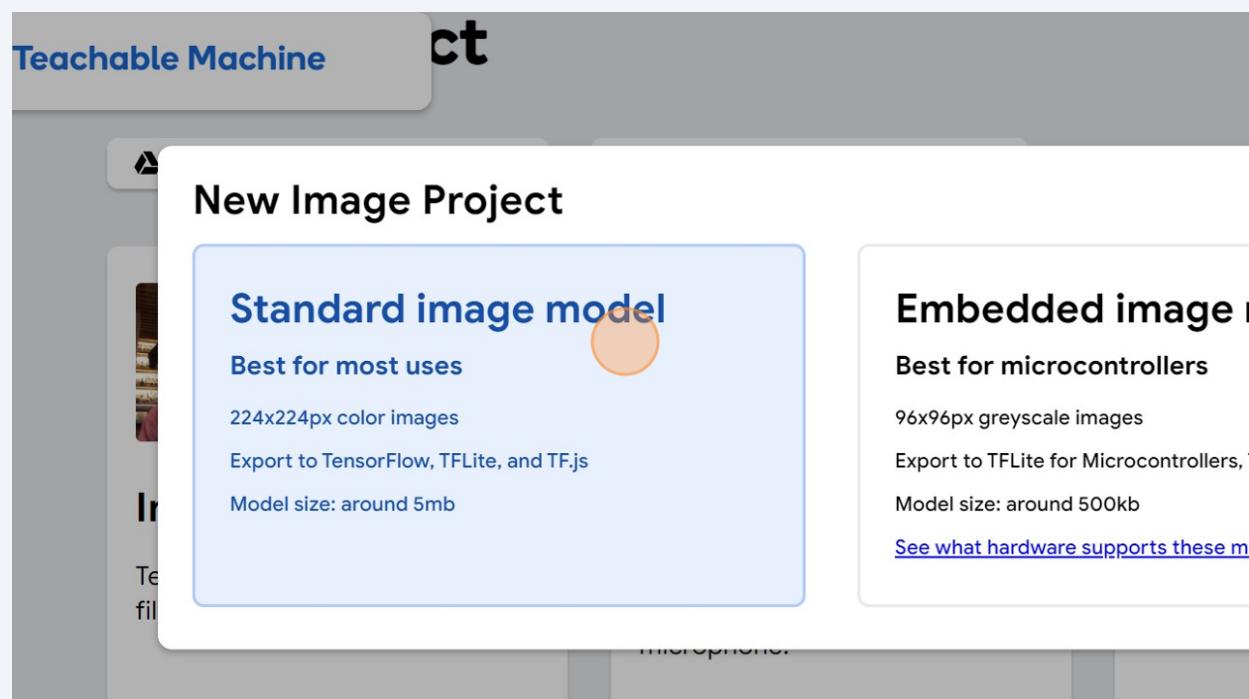
- 2 Click GET Started at the top right corner.



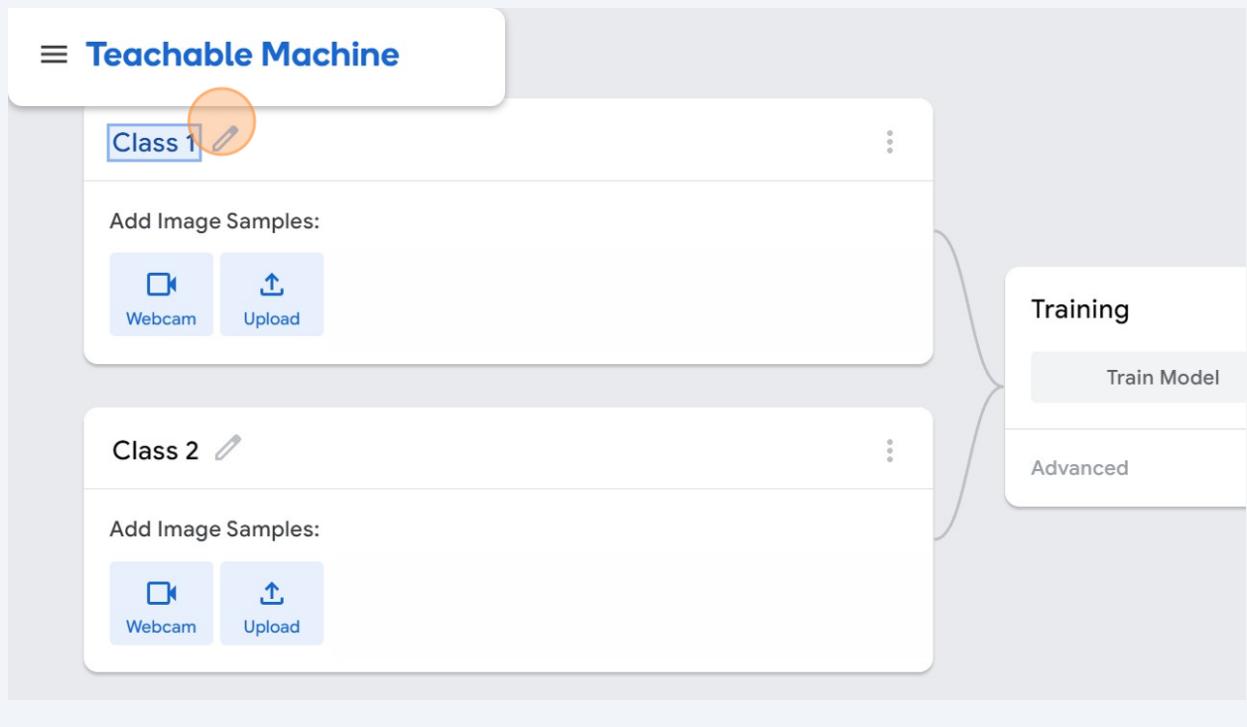
- 3 Click Image Project.



- 4 Keep the default configuration (standard image model)

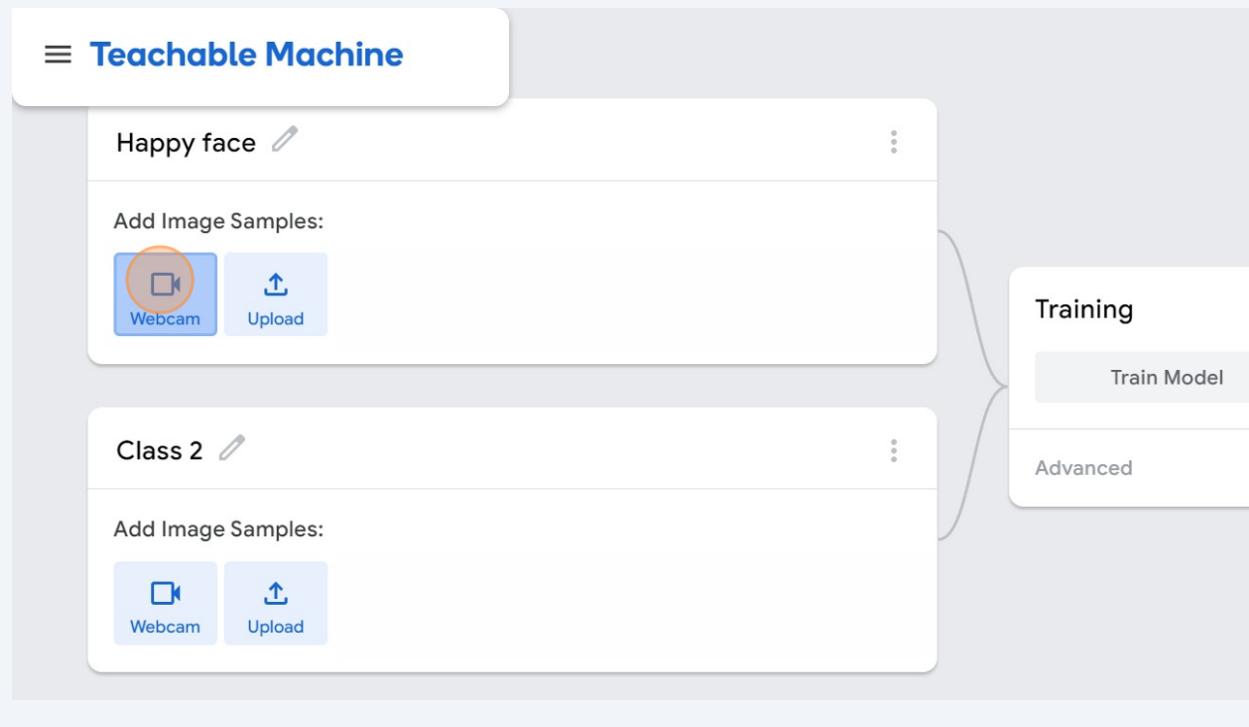


5 Click on Class 1.

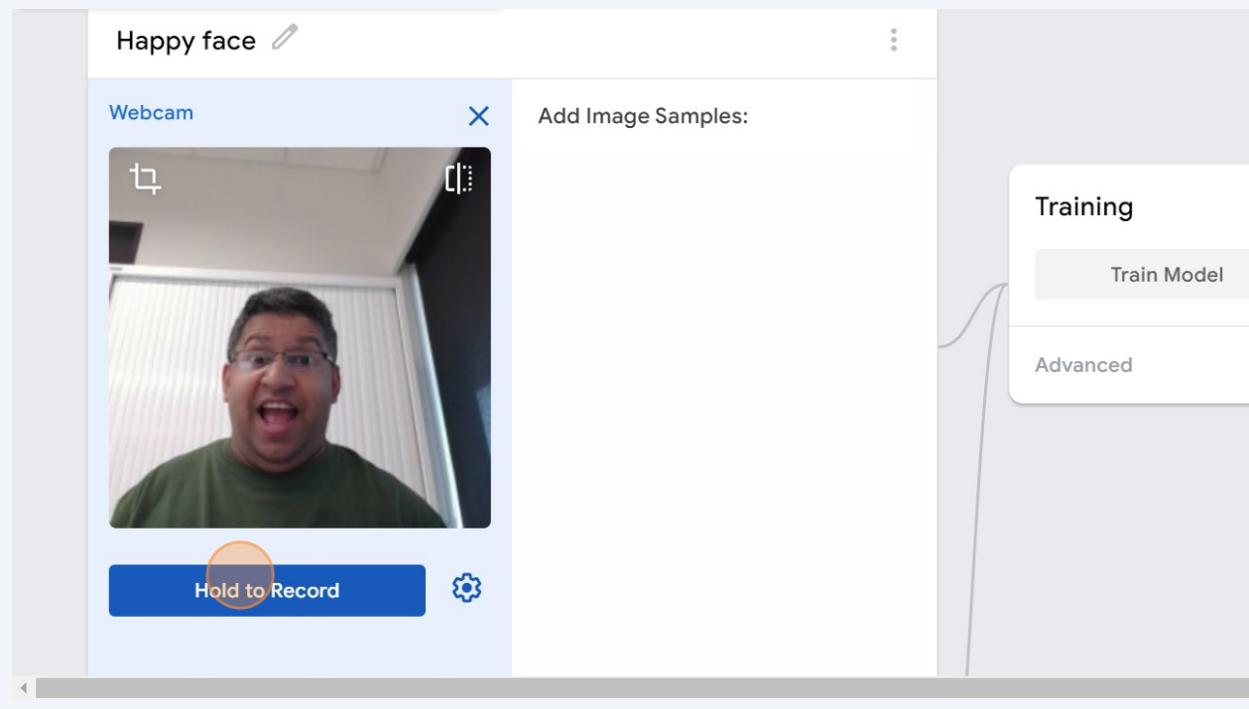


6 Type "Happy face **enter**"

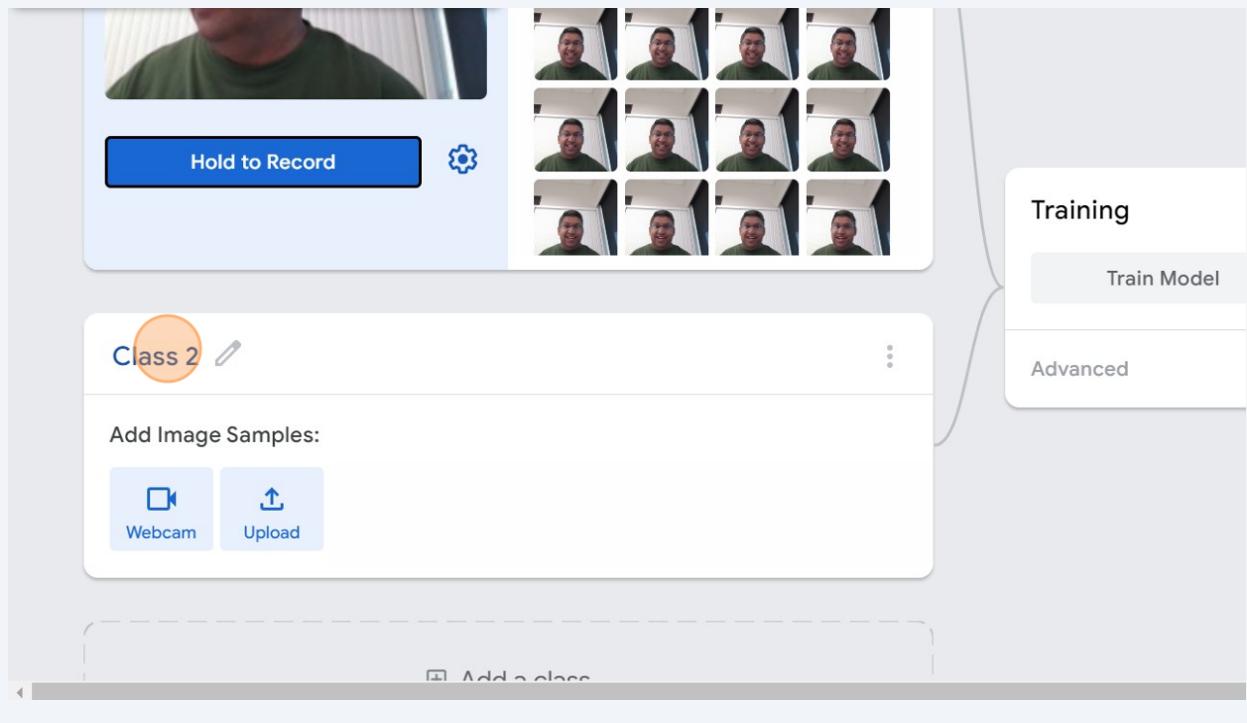
- 7 Click on Webcam. A popup will appear, you need to allow camera access



- 8 Click and hold on the Hold to Record button and collect at least 50 images. Try to move your head at different angles to simulate the real environment.

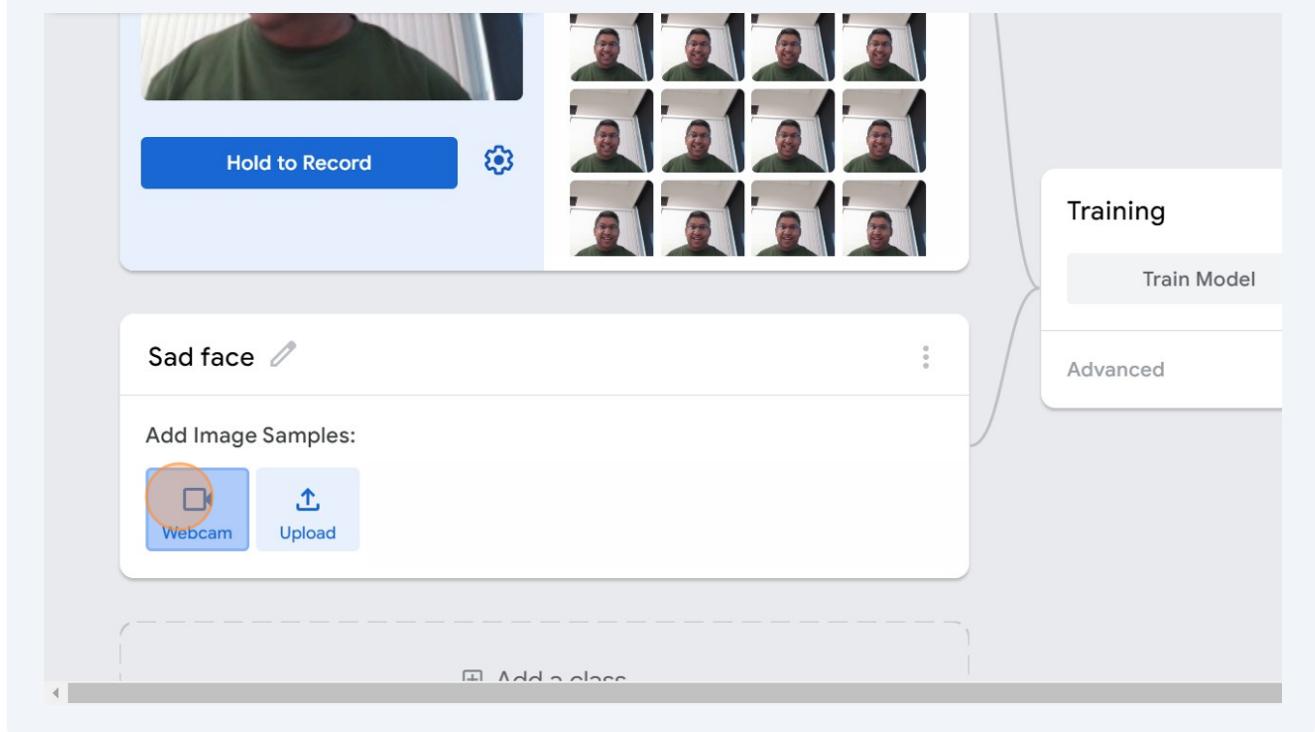


9 Click on Class 2.

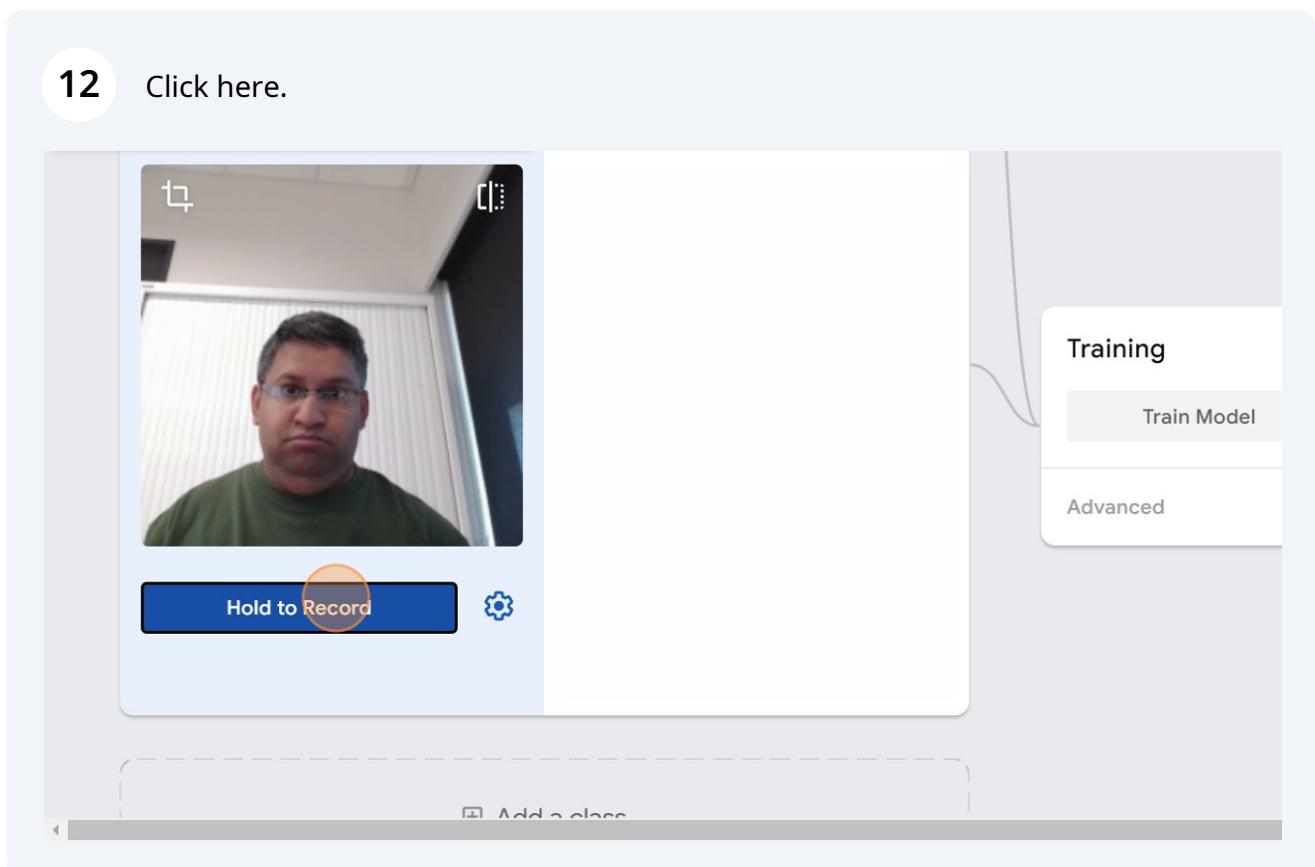


10 Type "Sad face enter"

11 Again collect another 50 images for the sad face.

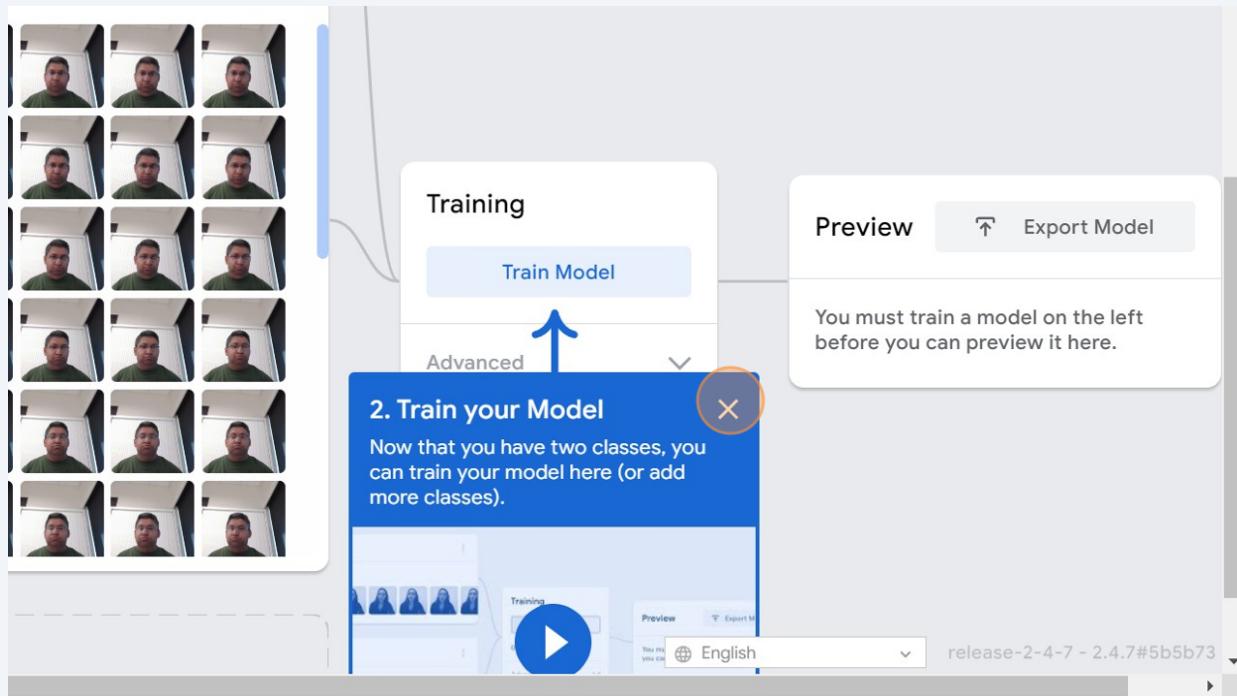


12 Click here.



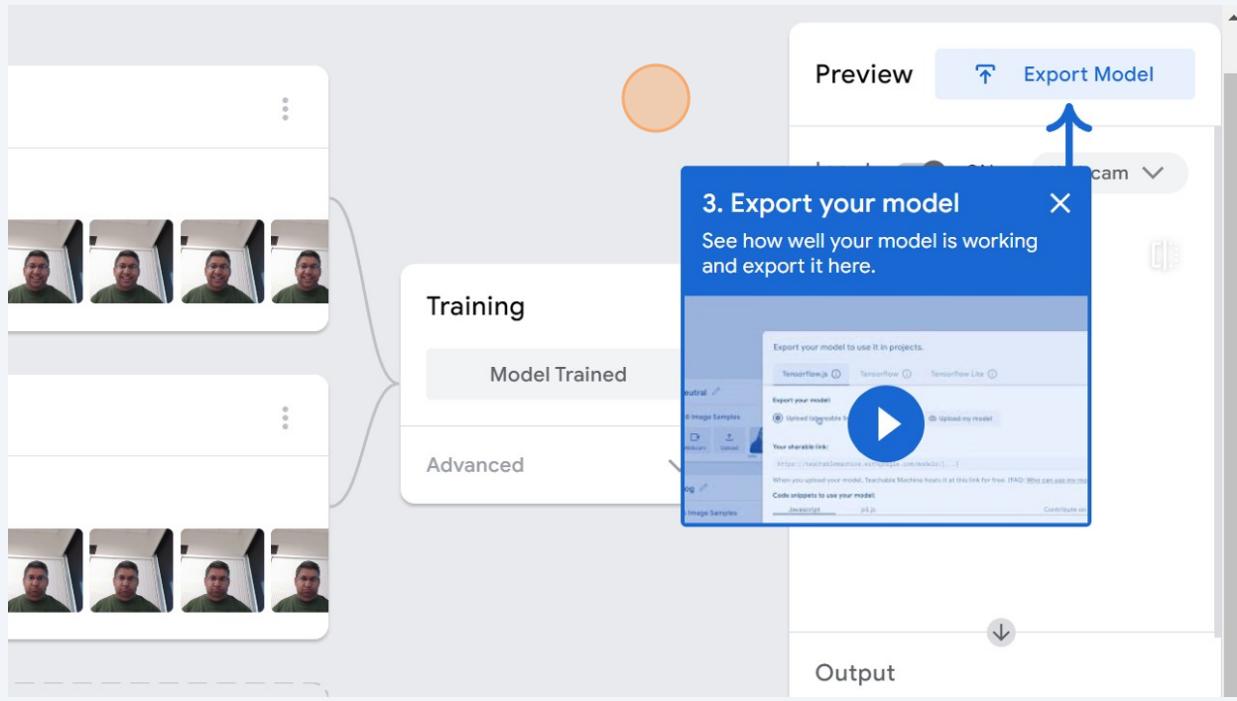
13

Click on Train Model. It might take a while depending on number of classes, amount of images and your Internet connection speed.

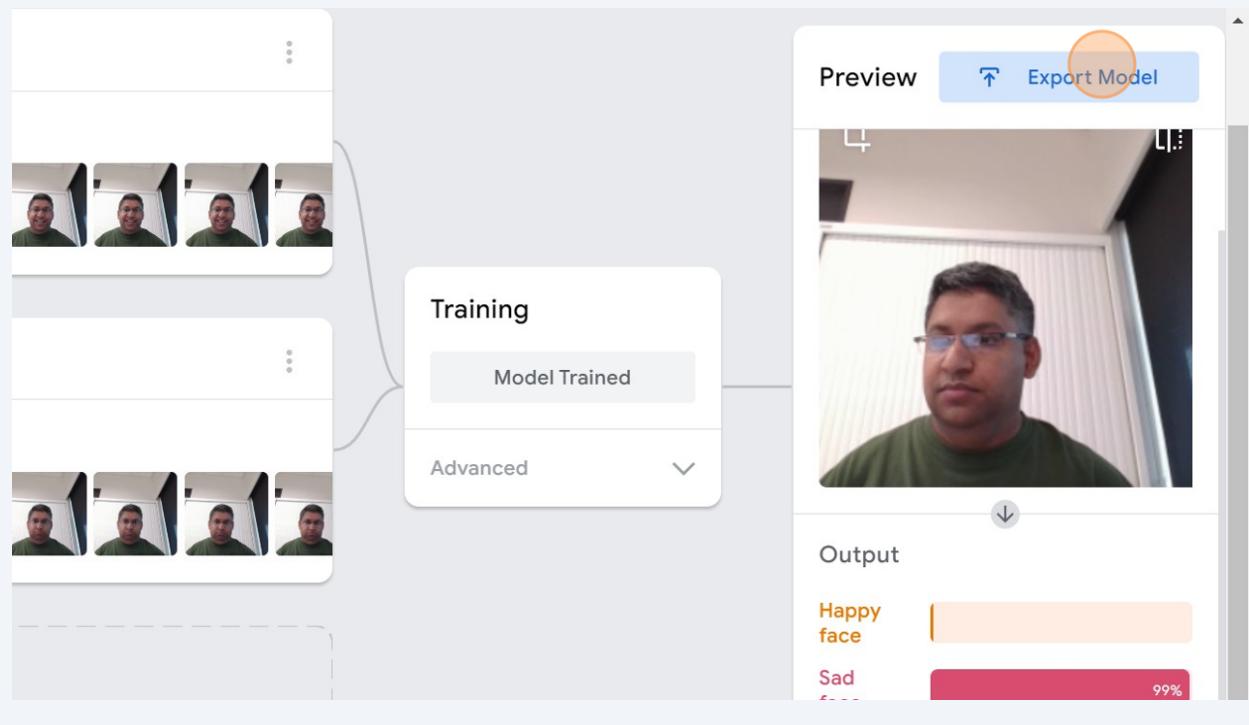


14

Once training is done, preview your model. Check with different background. Invite another person to check the robustness of the model. If you are happy with the outcome, click on Export Model.



15 Click here.



16 Click on Upload my model.

This screenshot shows the 'Upload my model' section. It includes tabs for 'Tensorflow.js', 'Tensorflow', and 'Tensorflow Lite'. Below the tabs, there are options to 'Upload (shareable link)' or 'Download', with 'Upload (shareable link)' being selected. A large orange circle highlights the 'Upload my model' button. To the right, there is a preview video feed of a man's face. Below the upload section, there is a 'Your sharable link:' field containing a URL, and a note about hosting the model. At the bottom, there are code snippets for 'Javascript' and 'p5.js', and a 'Contribute on Github' link. A 'Copy' button is also present next to the code snippets.

17

Once the link is available, save it for later use. You can share the link with anyone to try the model.

The screenshot shows the Teachable Machine web interface. At the top, there are tabs for "Tensorflow" and "Tensorflow Lite". Below the tabs, there are two buttons: "Download" and "Update my cloud model". A URL "https://teachablemachine.withgoogle.com/models/xAvt5svAt/" is displayed, with a "Copy" button next to it, which is highlighted with an orange circle. To the right of the URL, there is a preview image of a person's face. Below the URL, there is text about the model being hosted by Teachable Machine. Further down, there is a "p5.js" section with a "Contribute on Github" button and a "Copy" button. At the bottom, there is some code snippet and a progress bar indicating 99% completion.