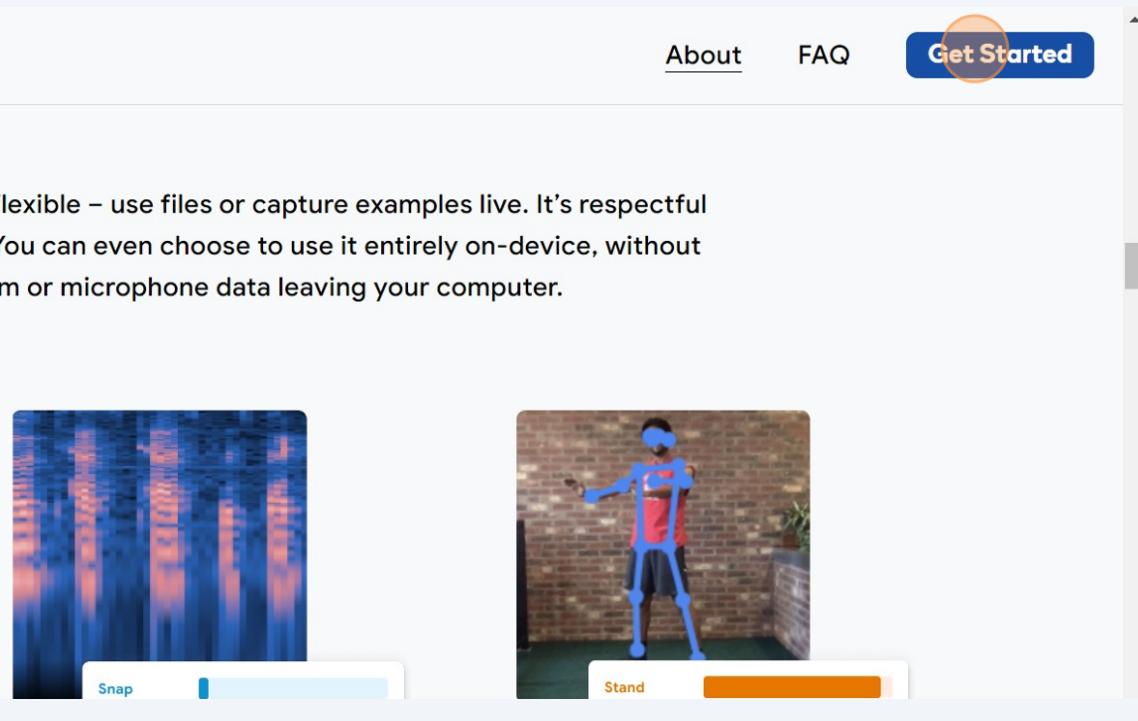


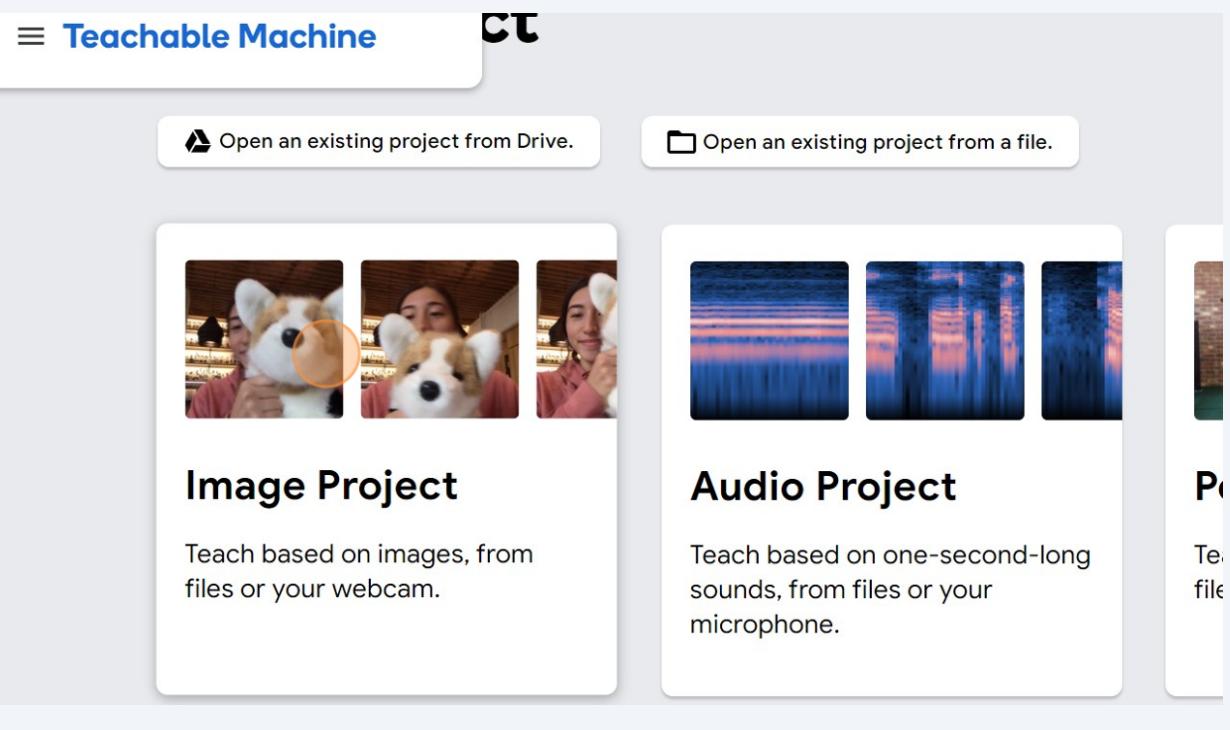
# How to Teach a Machine to Recognise Happy and Sad Faces

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

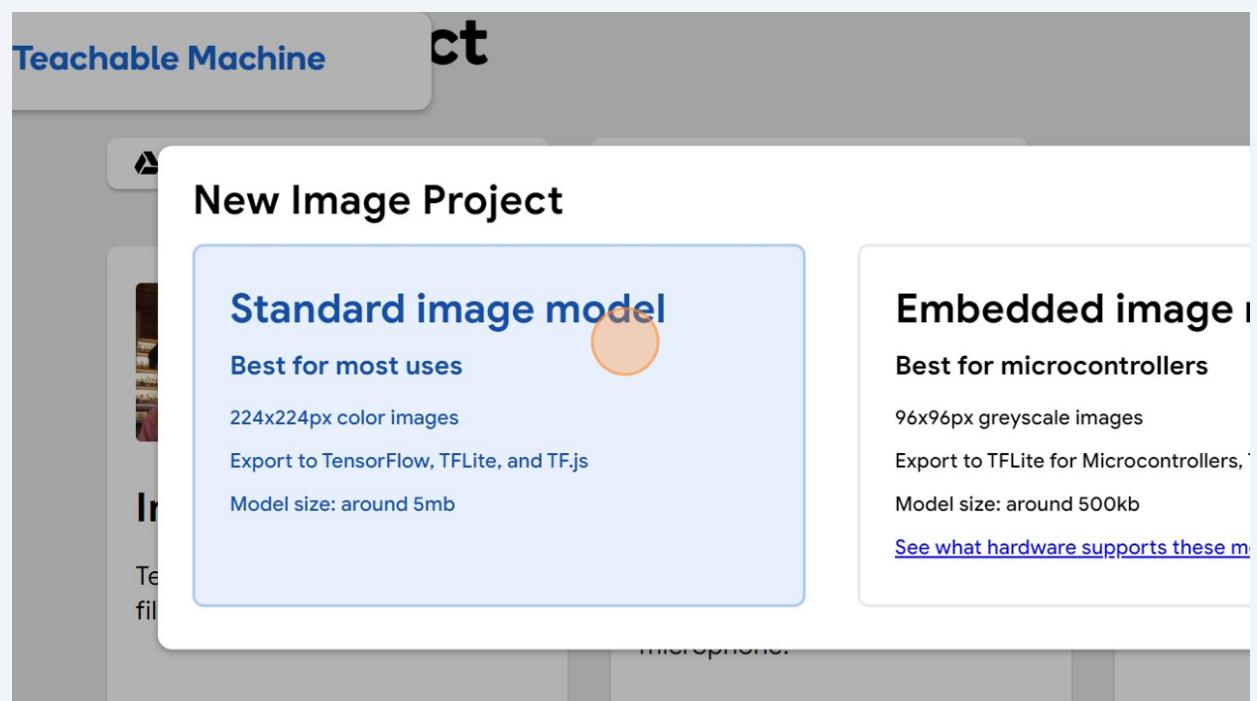
2 Click GET Started at the top right corner.



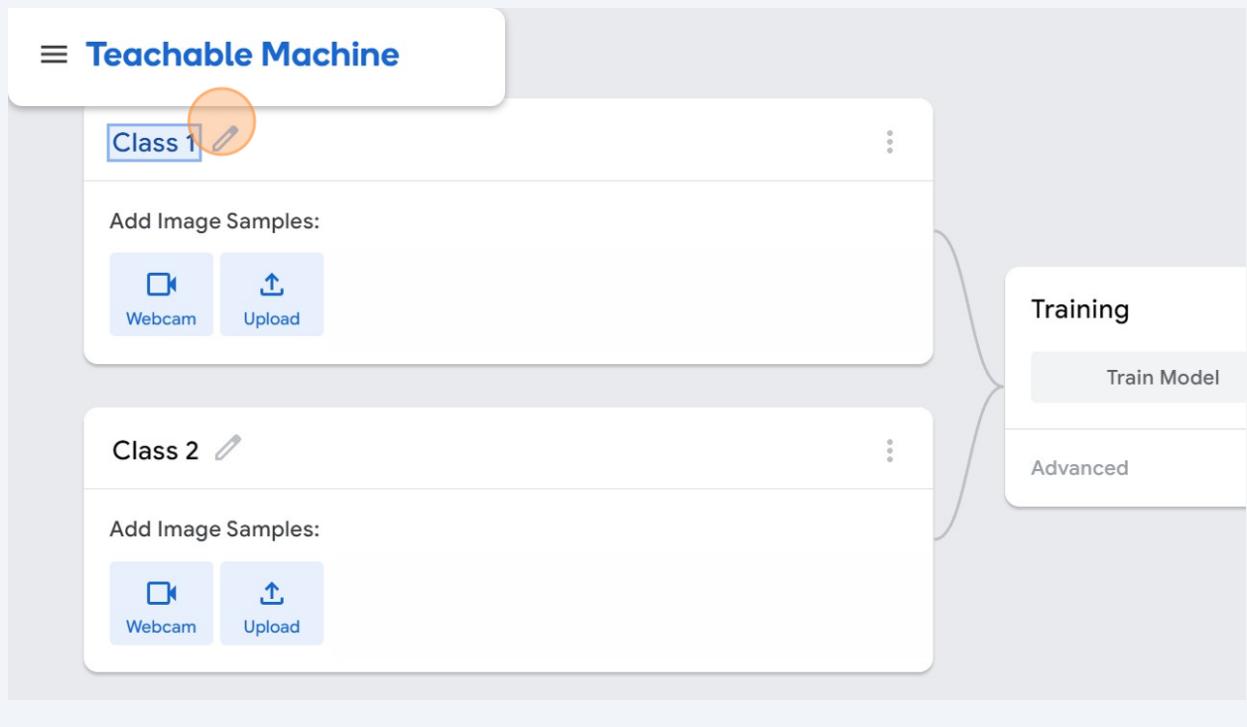
- 3 Click Image Project.



- 4 Keep the default configuration (standard image model)

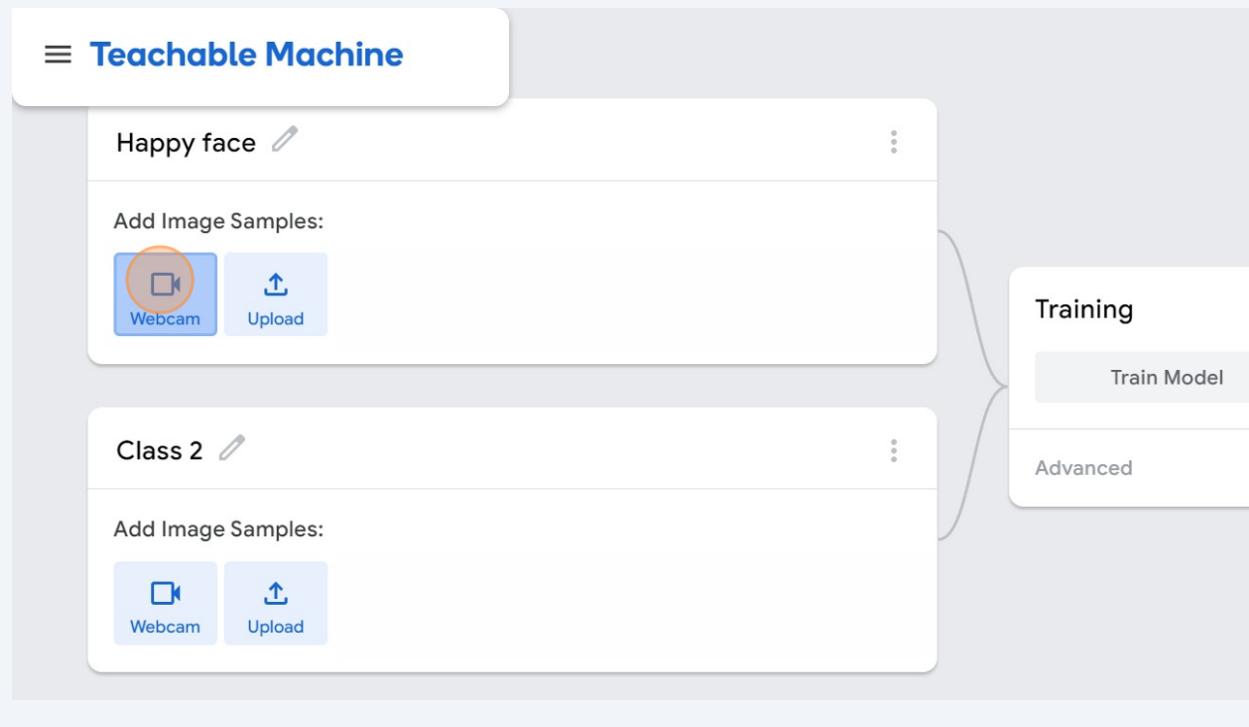


5 Click on Class 1.

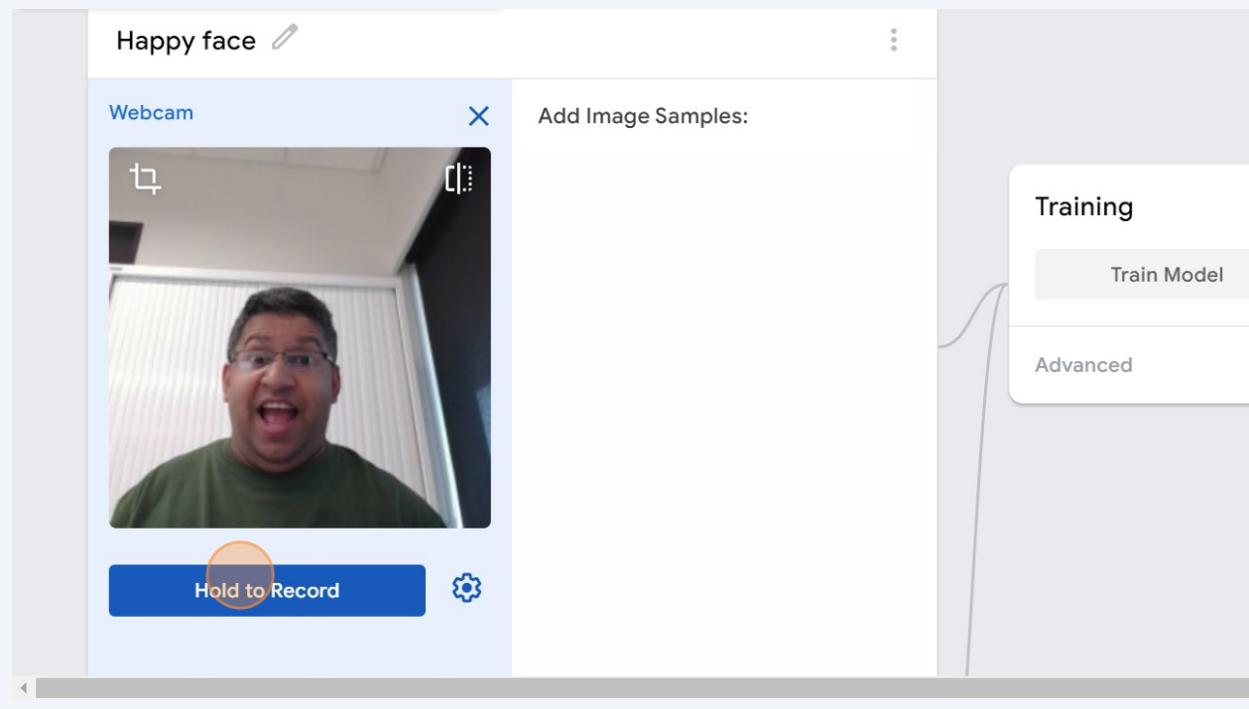


6 Type "Happy face" **enter**

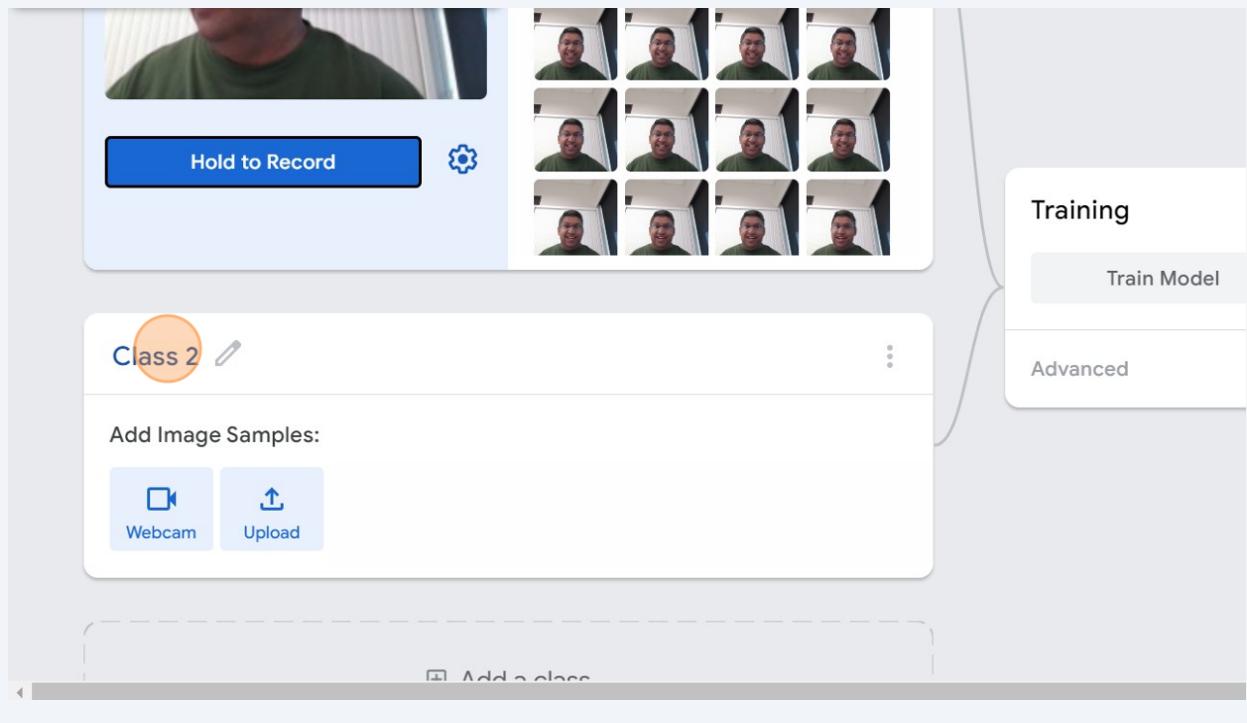
- 7 Click on Webcam. A popup will appear, you need to allow camera access



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

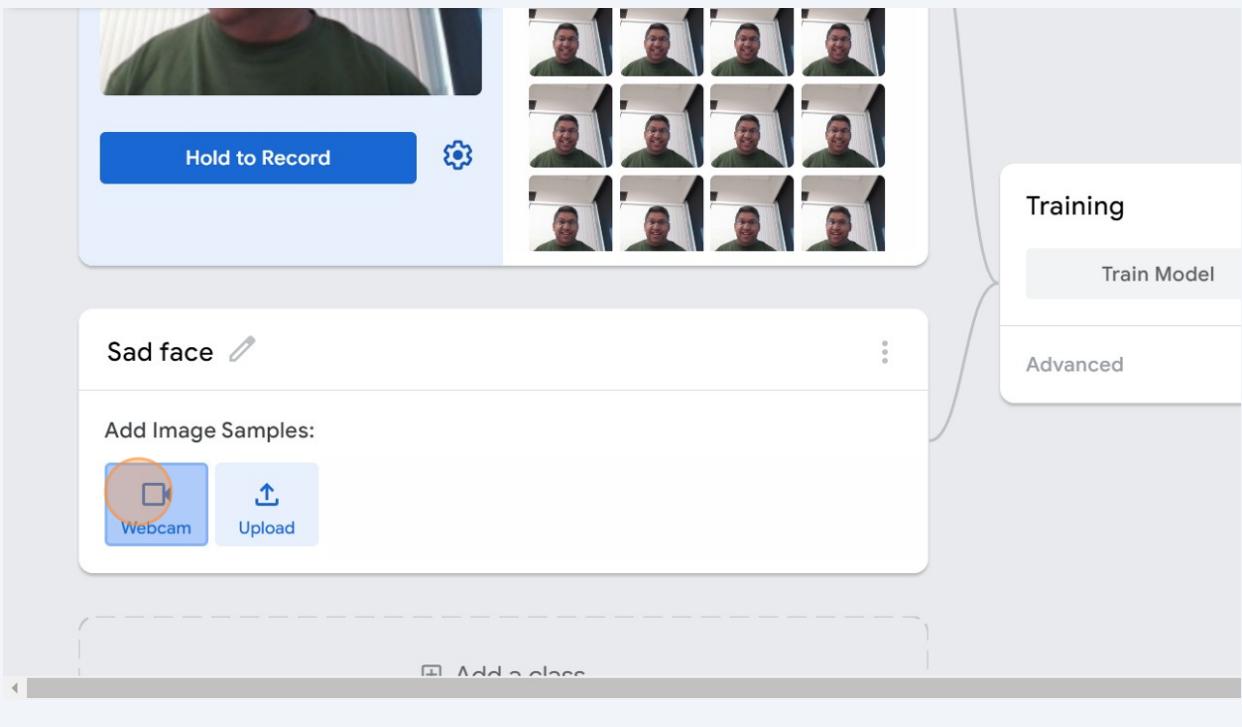


9 Click on Class 2.

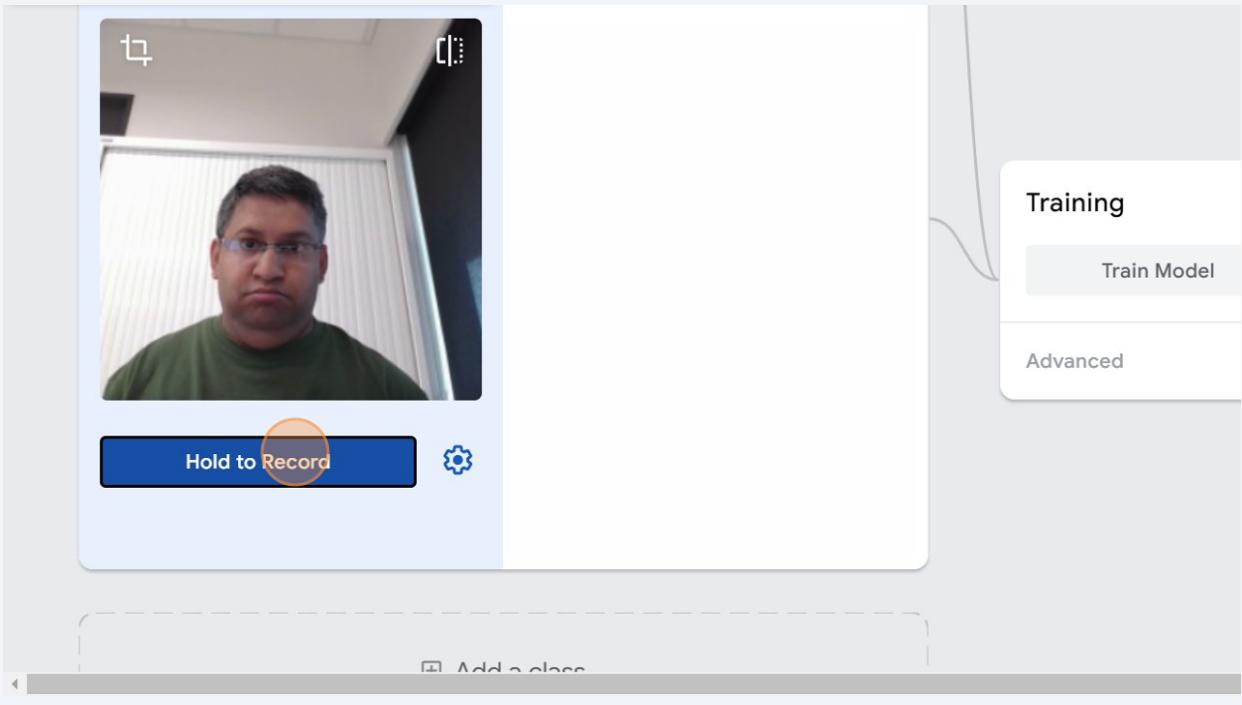


10 Type "Sad face" **enter**

**11** Click on Webcam

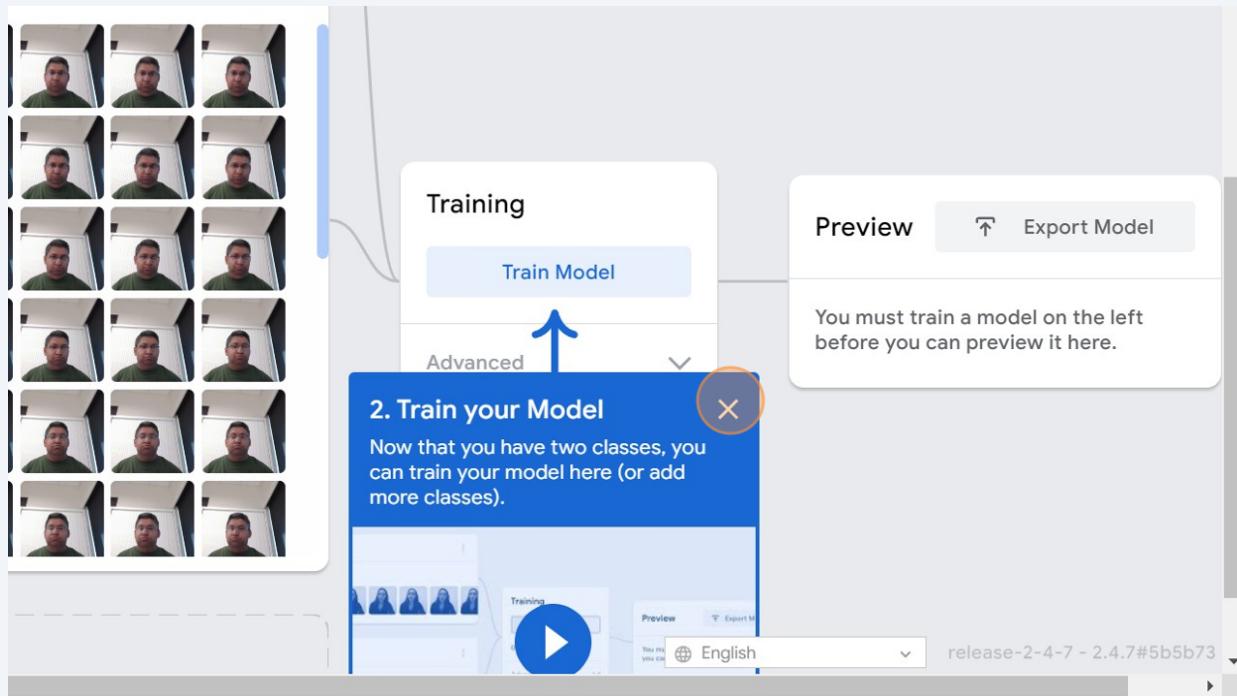


**12** Again collect another 50 images for the sad face.



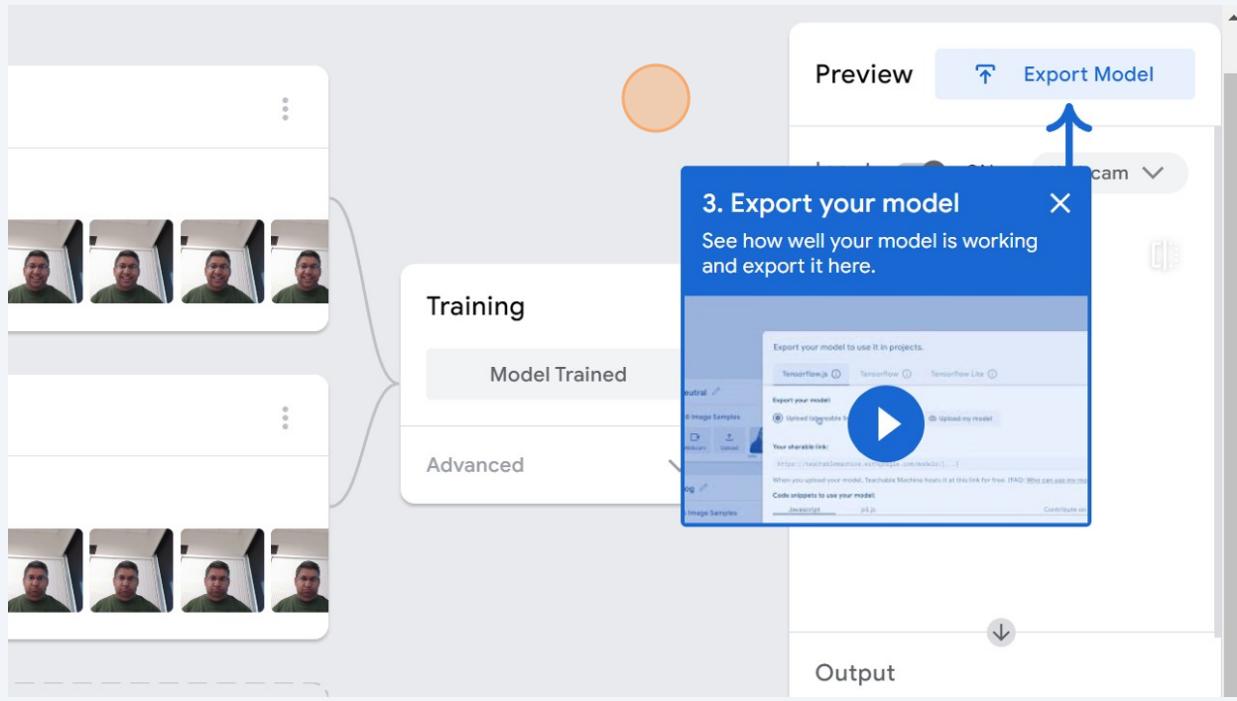
13

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

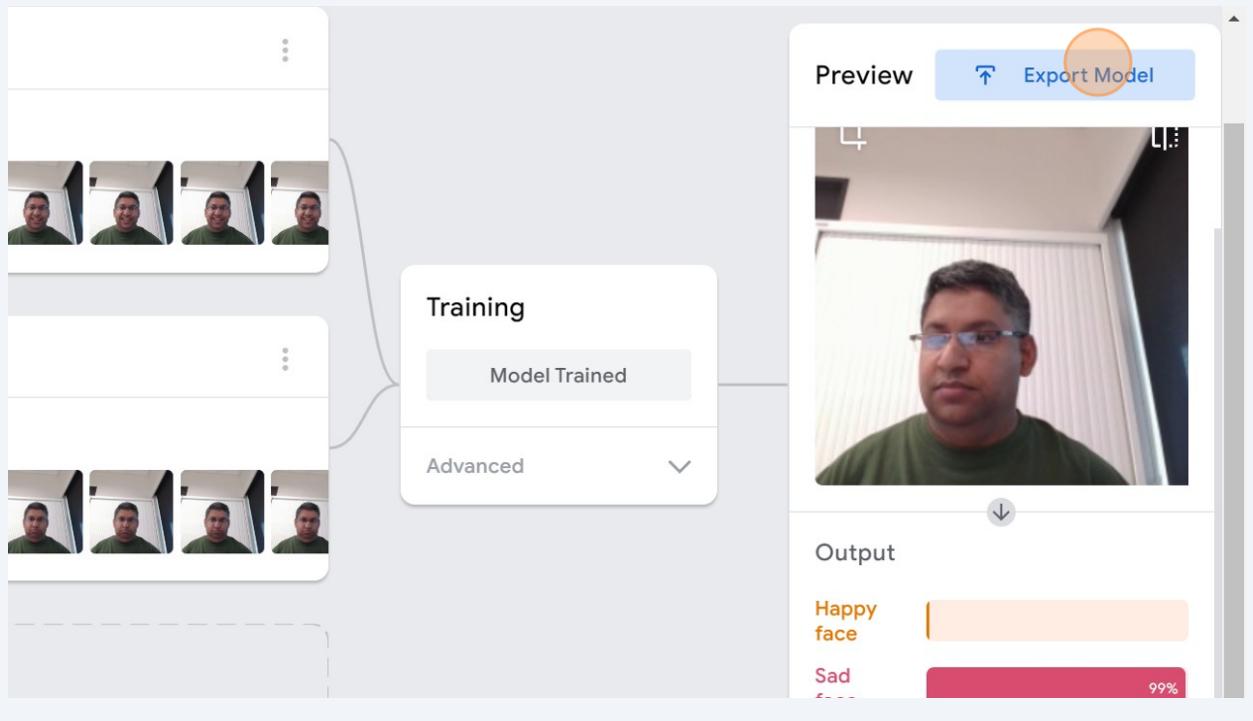


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Once training is done, preview your model. Check with different background. Invite another person to check the robustness of the model. If you are happy with the outcome, click on Export Model.



## 15 Click Export Model



## 16 Click on Upload my model.

This screenshot shows the 'Export your model' section of the Teachable Machine interface. 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 blue button labeled 'Upload my model' is highlighted with an orange circle. To the right, there is a preview window showing a video feed of a person's face. Below the preview, there is a 'Your sharable link:' field containing a URL: [https://teachablemachine.withgoogle.com/models/\[...\]/](https://teachablemachine.withgoogle.com/models/[...]/). There is also a note: 'When you upload your model, Teachable Machine hosts it at this link. (FAQ: [Who can use my model?](#))'. Further down, there are 'Code snippets to use your model:' sections for 'Javascript' and 'p5.js', and a 'Contribute on Github' link. A 'Copy' button is located next to the Javascript code snippet.

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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.