

Step-by-Step Guide to Creating a Facial Focus Detection Application

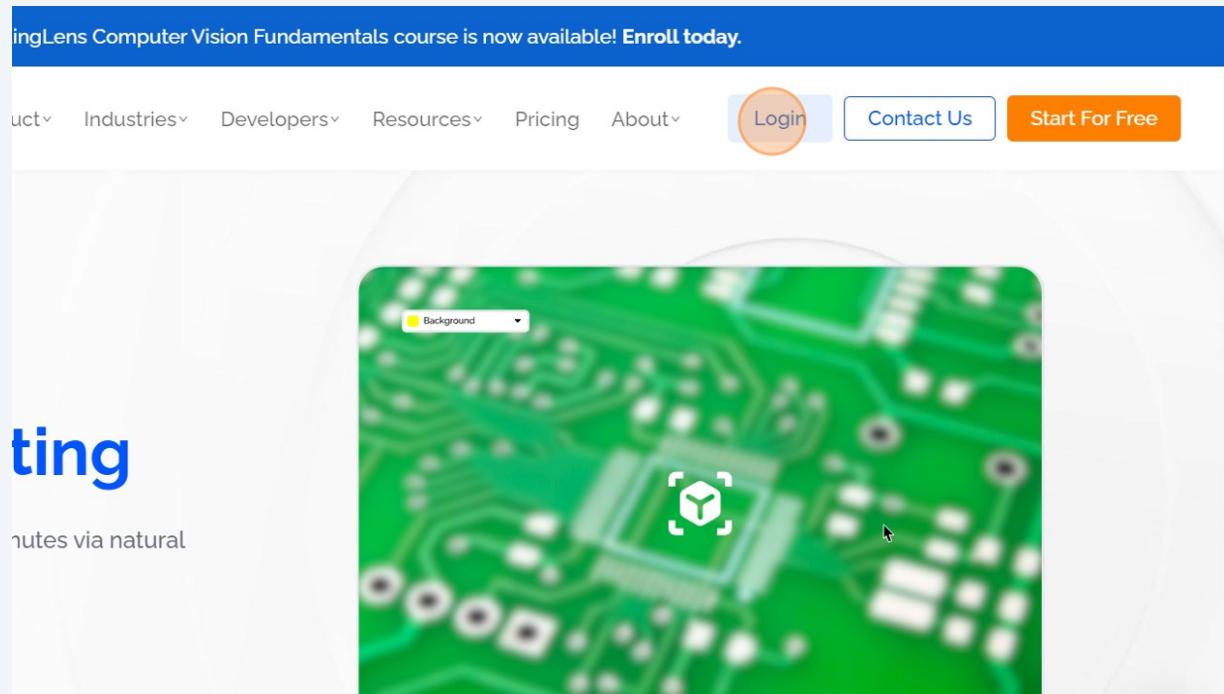
Scribe 

- 1 Navigate to <https://landing.ai/>

 Click Start For Free if you are visiting it for the first time. No payment information is required to create an account.

 Landing AI can do much more than image classification. It has segmentation, visual prompting and other advance features. Feel free to check out those features.

- 2 Click "Login"



3 Click "Projects"

The screenshot shows the LandingLens website interface. At the top, there is a navigation bar with links for Home, Projects (which is highlighted with an orange circle), Examples, Community, and a user profile icon. Below the navigation bar, a welcome message "Welcome, S M" is displayed. A large central banner features the title "Building Computer Vision Applications" and a subtitle "From application identification and scoping to model deployment". It includes a play button icon and a photo of a smiling man. To the right of the banner, there is a sidebar with the text "Not sure where to start? Get started quickly with our quick start guide" and a link to "LandingLens.com". Below the banner, there is a section titled "Get Started" with a "Get Started" button.

4 Click "Start First Project"

The screenshot shows the LandingLens website with a message "You don't have any projects yet". Below this message, there is a description: "Train your first computer vision model by following the 4 steps illustrated below. Hover over each step to see more details. We will also guide you along the way as you get started." Below the description, there are four circular icons representing the steps: "Upload" (cloud with arrow), "Label" (camera icon), "Train" (neural network icon), and "Predict" (lightbulb icon). At the bottom, there is a large button labeled "Start First Project" with an orange circle highlighting it.

5 You can either load some sample data or use your webcam to collect data. You can also upload images from your computer.

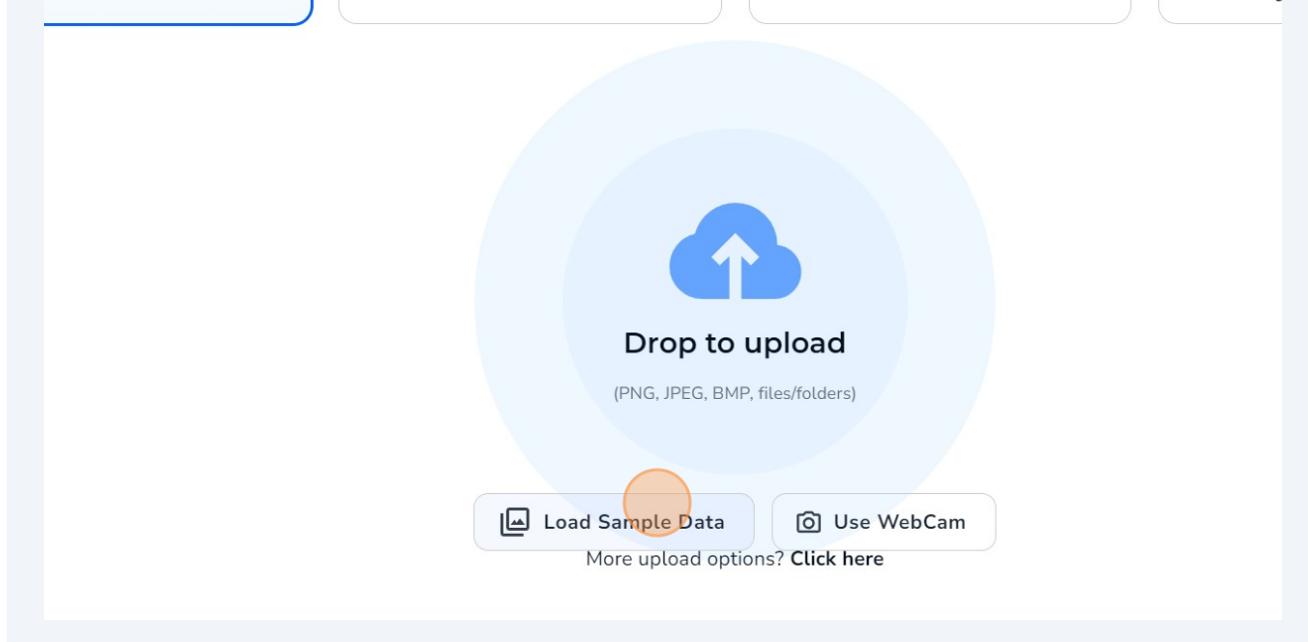
Here I am going to load some sample data to keep this activity short and relevant.

drawing boxes
around them

painting pixels on
them

different
categories

c
p
a



6 Choose Face Focus dataset. The dataset contain 20 labelled images.

boxes
item

Choose a sample dataset to load.

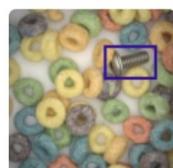
Wildfire detection

13 unlabeled images of wildfire.



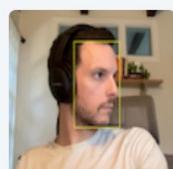
Inspect Food for Foreign Objects (Partially Labeled)

20 images of cereal with screws. 17 of the images will be labeled for you.



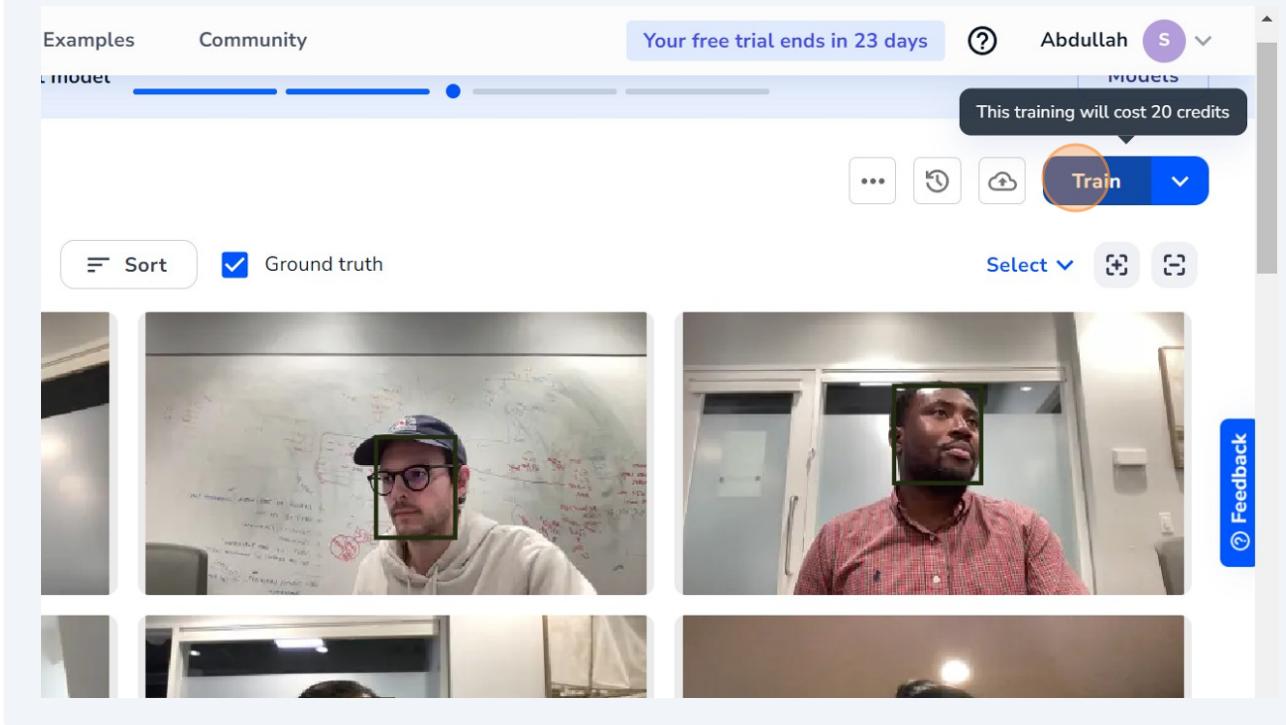
Face Focus (Labeled)

Image set used to develop a facial focus detection application, whether the faces are directly facing the camera or not.

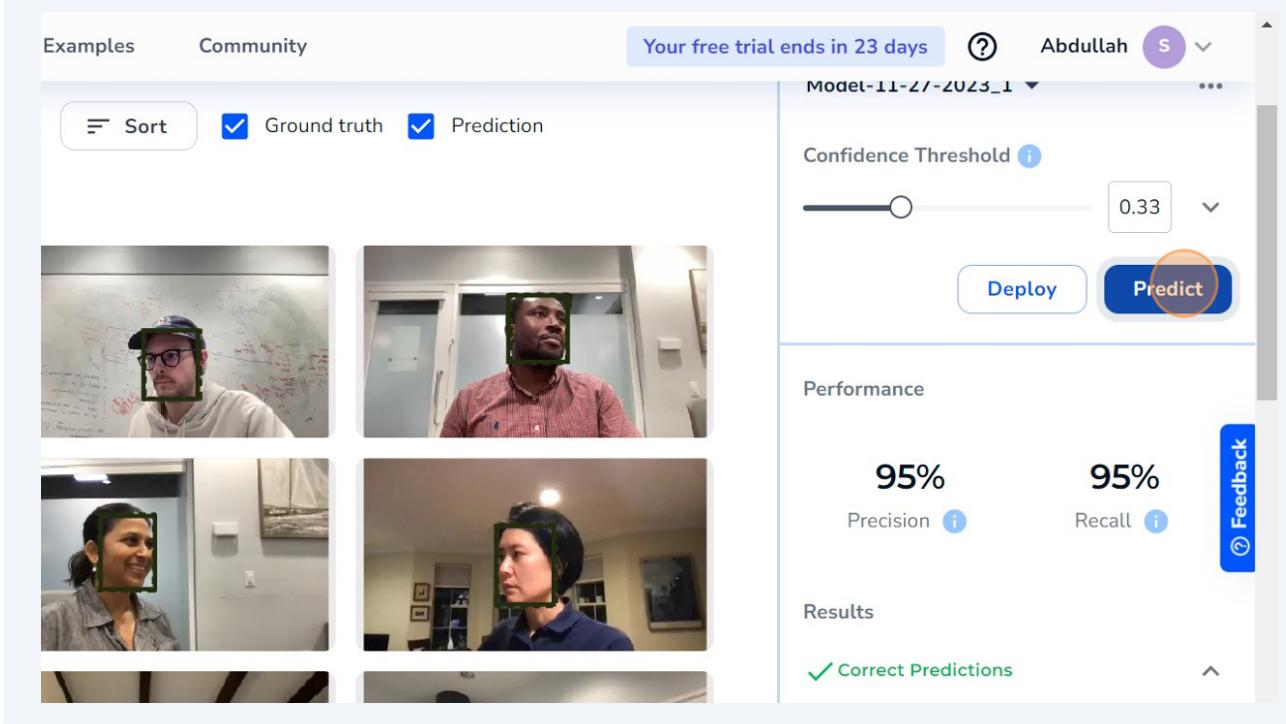


objects by
prompting
area

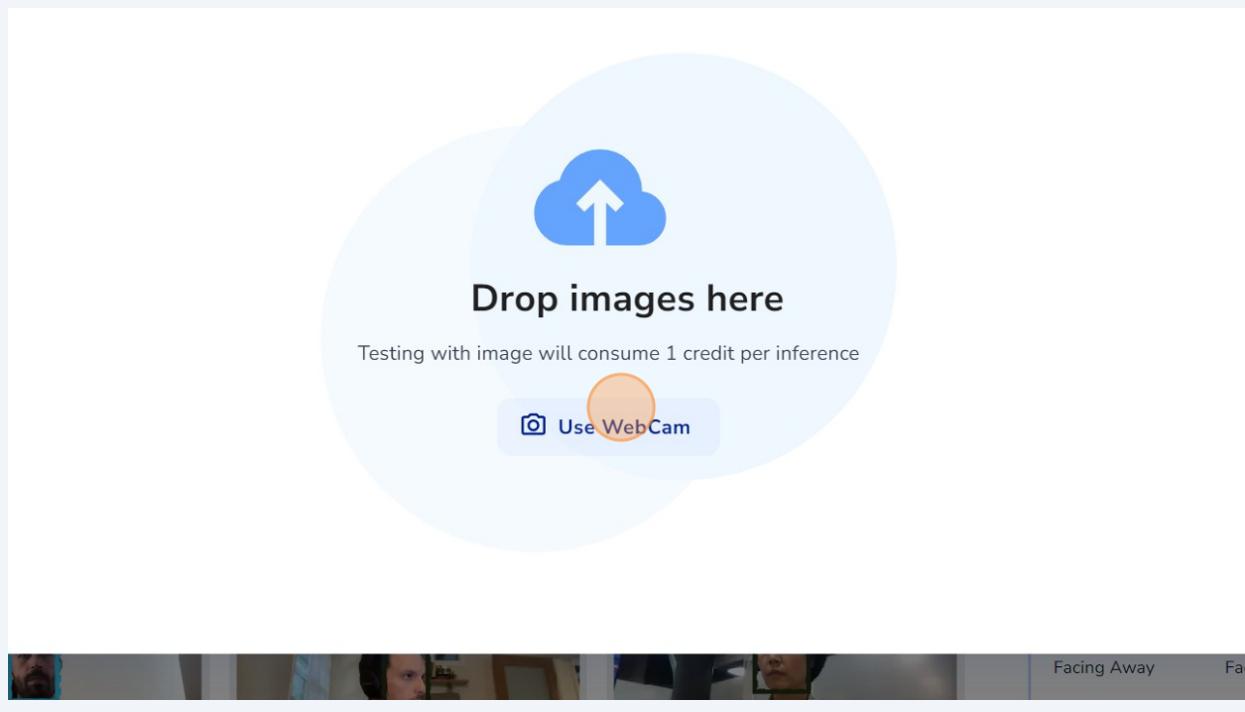
- 7 Click "Train". It will take a moment to finish training. The training will cost you 20 credits out of 1000 initial credits when you create the account.



- 8 Click "Predict"



9 Click "Use WebCam"

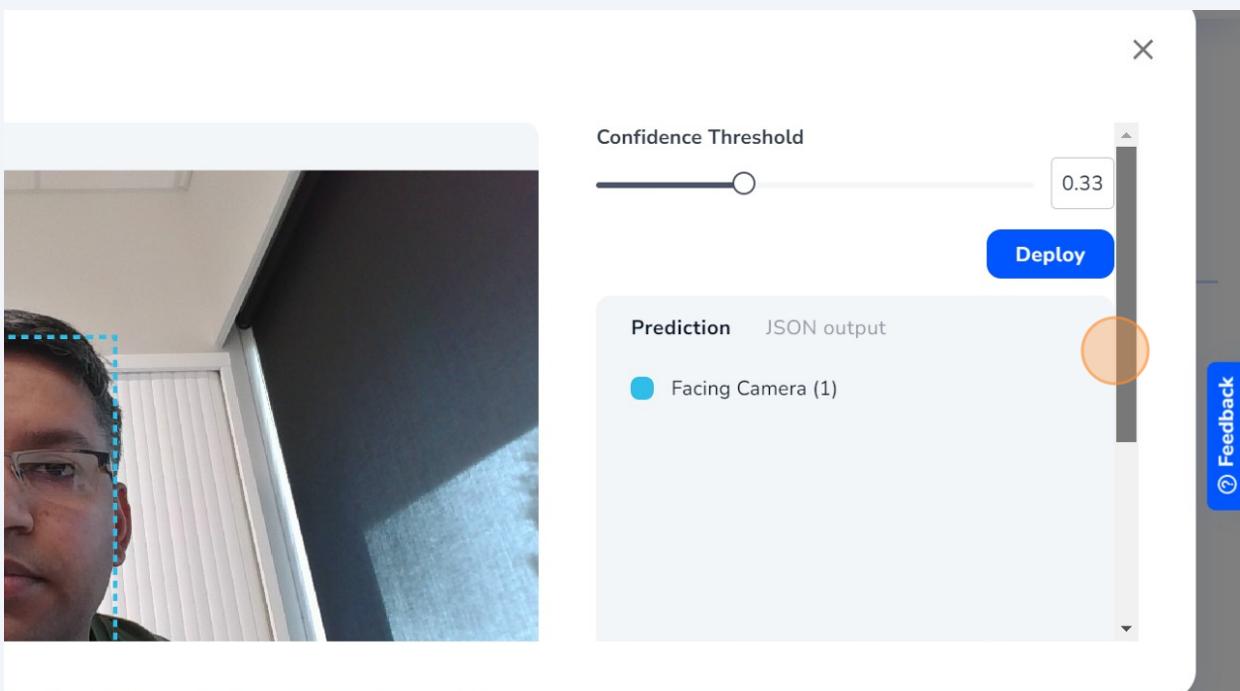


10 Look at your webcam and capture an image.

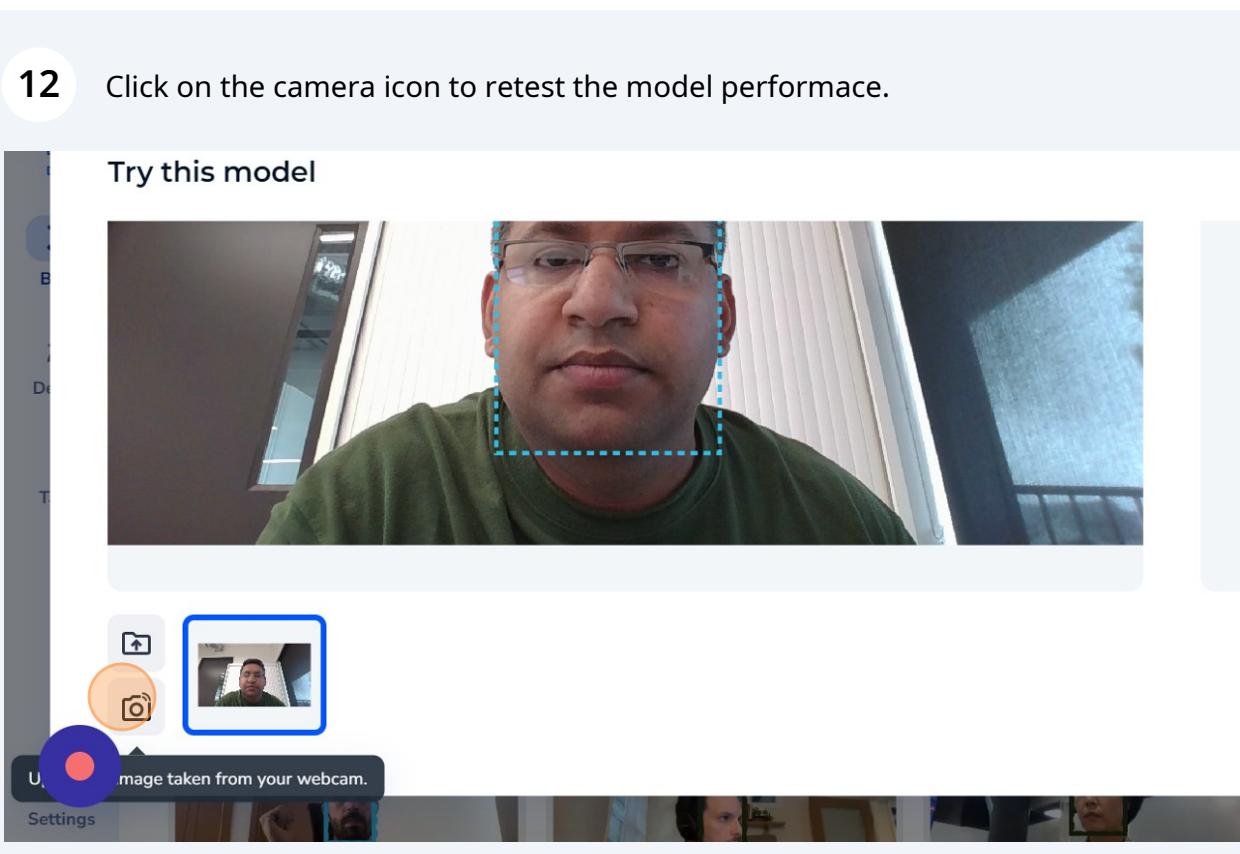
odel



- 11** After some times, the model will come back with the prediction.

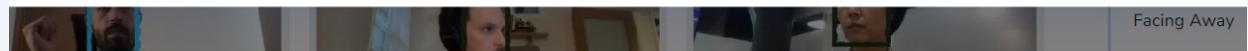


- 12** Click on the camera icon to retest the model performance.



- 13** Look away from your webcam and capture an image.

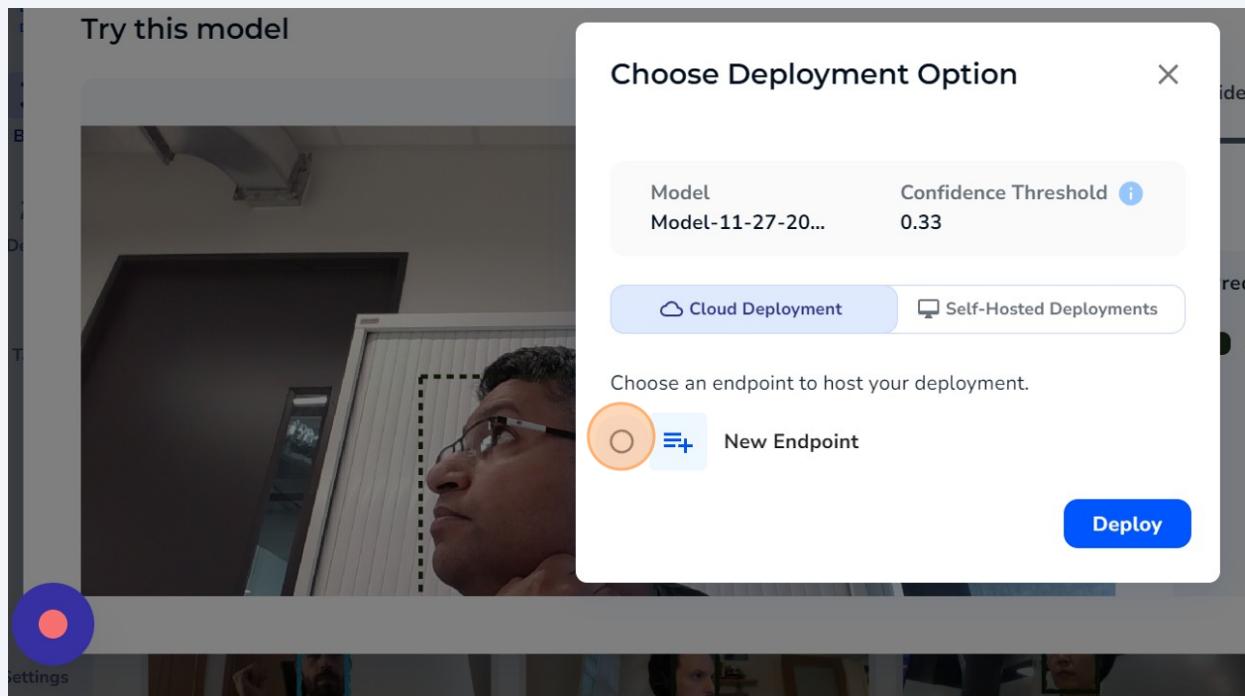
Model



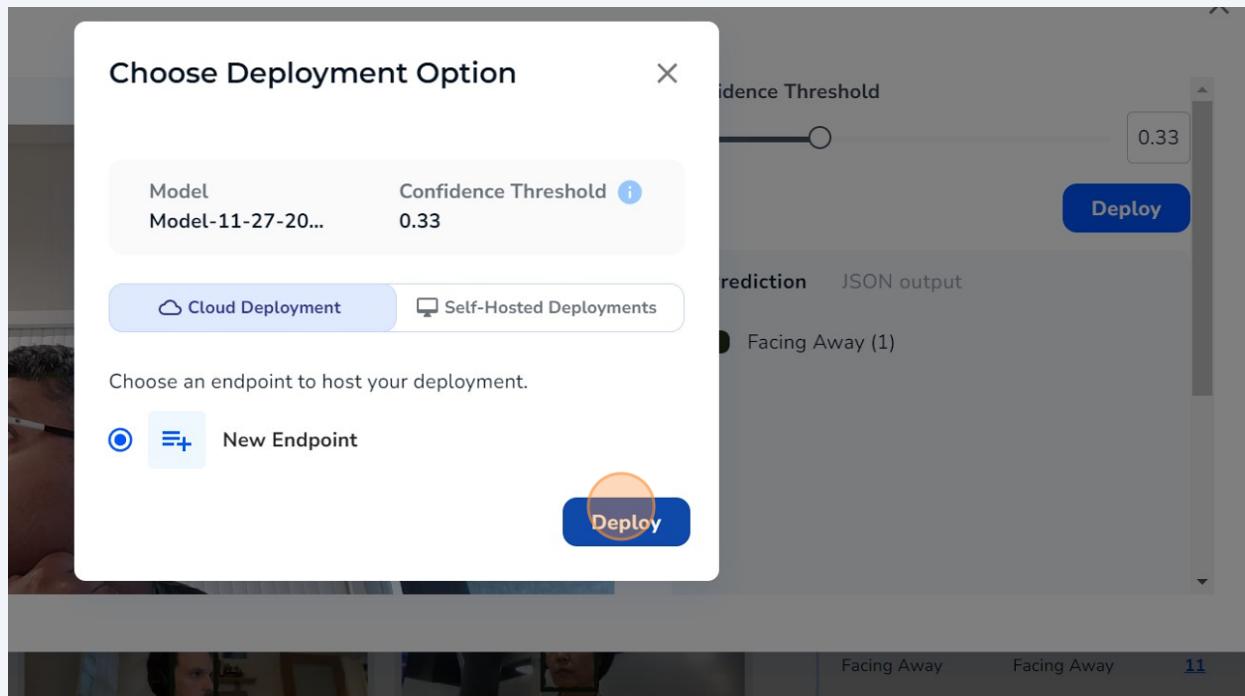
- 14** Once happy, you can deploy the model on the cloud and share with others.

A screenshot of a web-based machine learning deployment interface. At the top, there are navigation links for "Examples" and "Community", a trial status message "Your free trial ends in 23 days", and a user profile "Abdullah". Below this is a large central panel. On the left is a preview video feed showing a person's profile. In the center, there is a "Confidence Threshold" slider set to 0.33, with a "Deploy" button below it. The "Prediction" section shows "Facing Away (1)" with a green dot. There are also "JSON output" and "Feedback" buttons. A vertical sidebar on the right has a "Feedback" button.

15 Select the "New Endpoint" radio button.

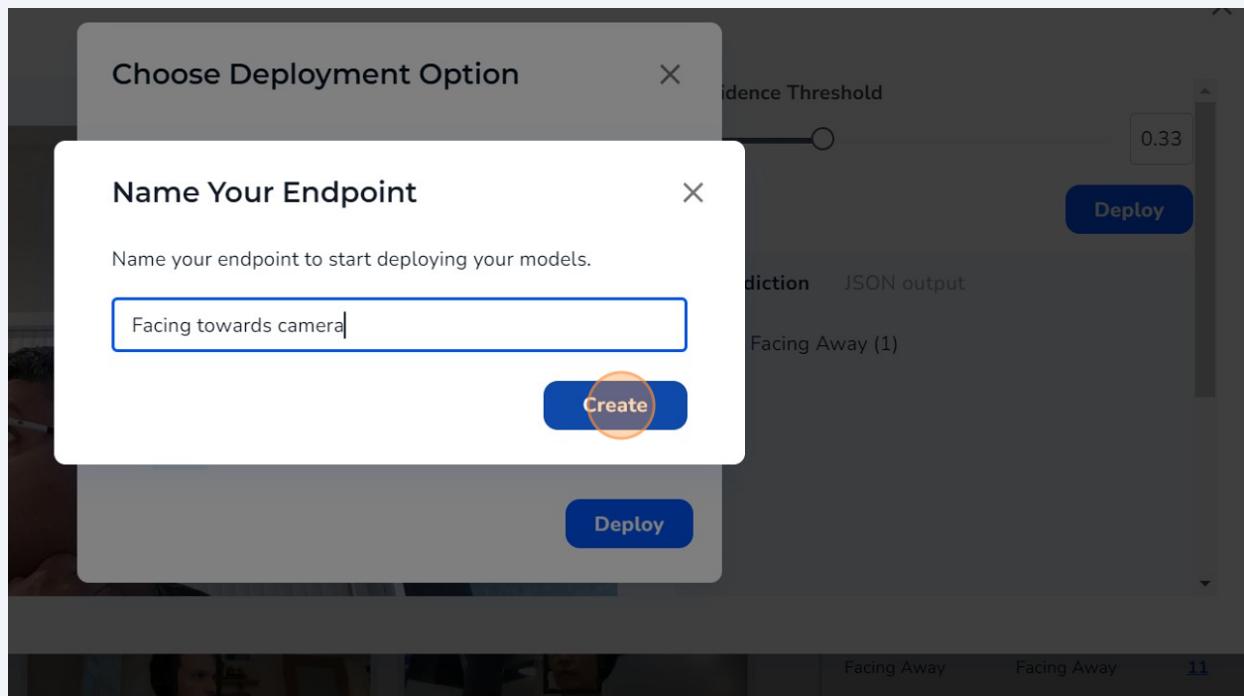


16 Click "Deploy"



17 Type "Facing towards camera". You can give it other names as well.

18 Click "Create" and wait until it finish deploying your model.



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You can access your model from different programming languages (e.g., Python and Javascript). Alternatively, you can click on Get QR Code, so people with smart devices can use the model outcome.

The screenshot shows the landing.ai API Inference interface. On the left, there's a "Python SDK" tab selected, displaying sample code for making an inference using the Python Predictor library. The code imports PIL, landingai.predict, and Predictor, sets an endpoint ID and API key, loads an image, and runs the predictor. A "Copy" button is visible next to the code. Below the code, there's a link to "View API Key & Secret" and a note to refer to the "Python SDK documentation". On the right, there's a "Mobile Inference" section featuring a smartphone icon and a camera icon. It includes a note about generating a QR code for others to use, a "Get QR Code" button, and a "Feedback" button. A large orange circle highlights the "Get QR Code" button.

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You can use your smartphone to test the model. Every prediction will cost 1 credit.

The screenshot shows the landing.ai mobile inference interface. At the top, there are navigation links for "Examples" and "Community", a trial status message ("Your free trial ends in 23 days"), and a user profile for "Abdullah". On the left, there's a section titled "Scan and run inference on your phone!" with a large QR code. Below the QR code is a "Turn It Off" button and an icon of three coins. A note at the bottom states that anyone with the QR code can run inference and consume credits, with each inference costing 1 credit per image. On the right, there's another QR code labeled "Mobile Inference". A note below it says "Mobile Inference" and provides the same usage information. A "Feedback" button is also present here. A large orange circle highlights the "Turn It Off" button in the bottom-left section.