

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

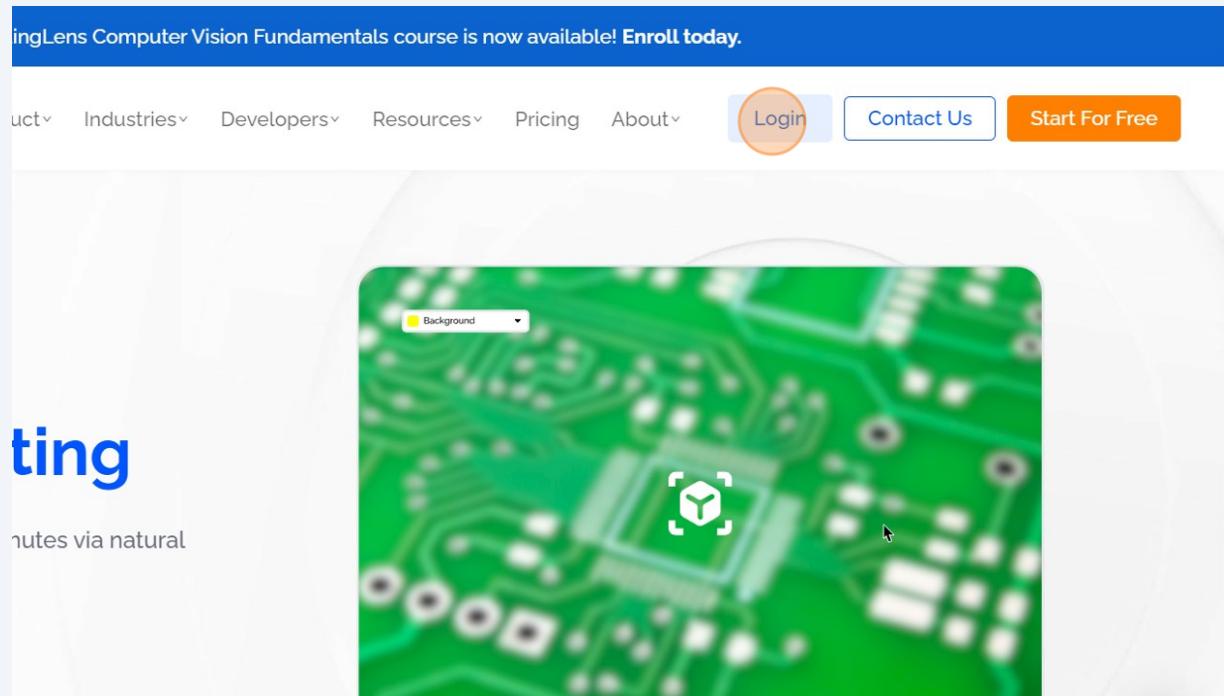
Scribe 

- 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 icon), "Label" (camera icon), "Train" (neural network icon), and "Predict" (lightbulb icon). At the bottom, there is a large button labeled "Start First Project".

5 You have the option to load sample data or collect data using your webcam. Images from your computer can be uploaded as well.

I will load sample data to keep this activity short and relevant.

drawing boxes around them

painting pixels on them

different categories

c
p
a

Drop to upload

(PNG, JPEG, BMP, files/folders)

 Load Sample Data

 Use WebCam

More upload options? [Click here](#)

6 Choose Face Focus dataset. The dataset consists of 20 labelled images.

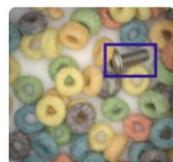
boxes item

Choose a sample dataset to load.



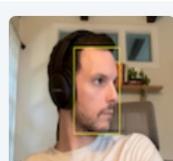
Wildfire detection

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.

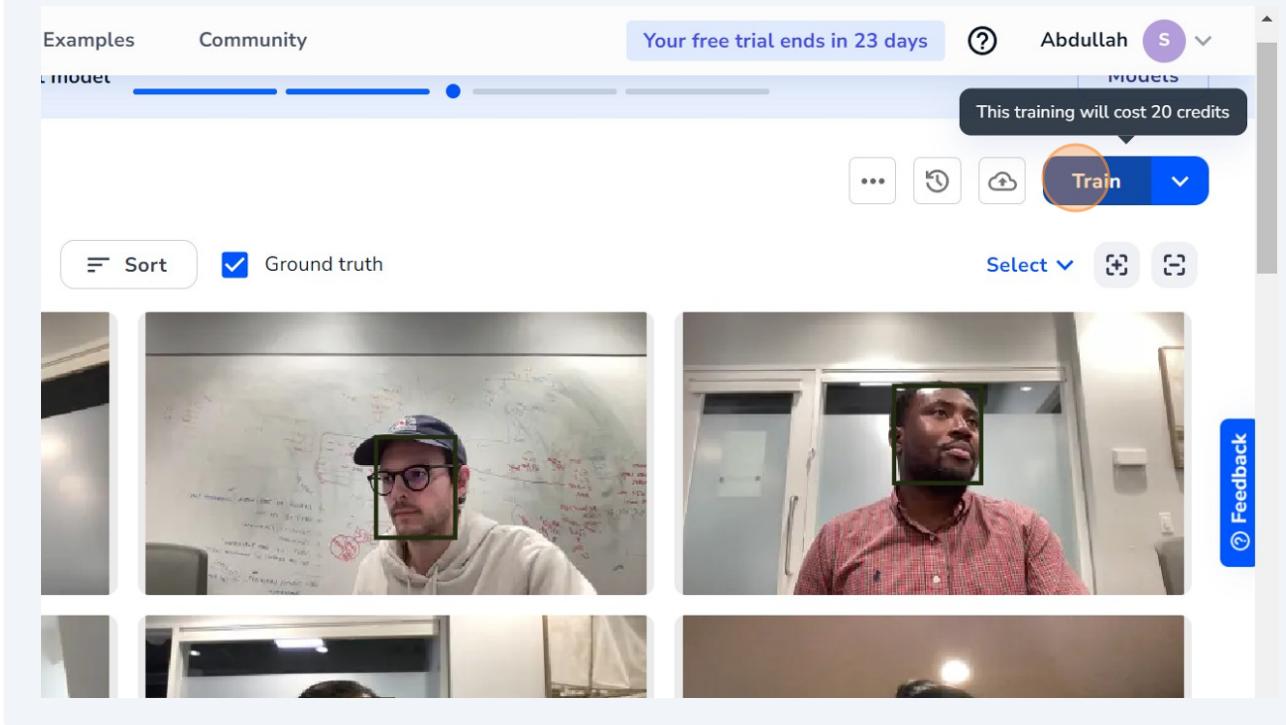


Face Focus (Labeled)

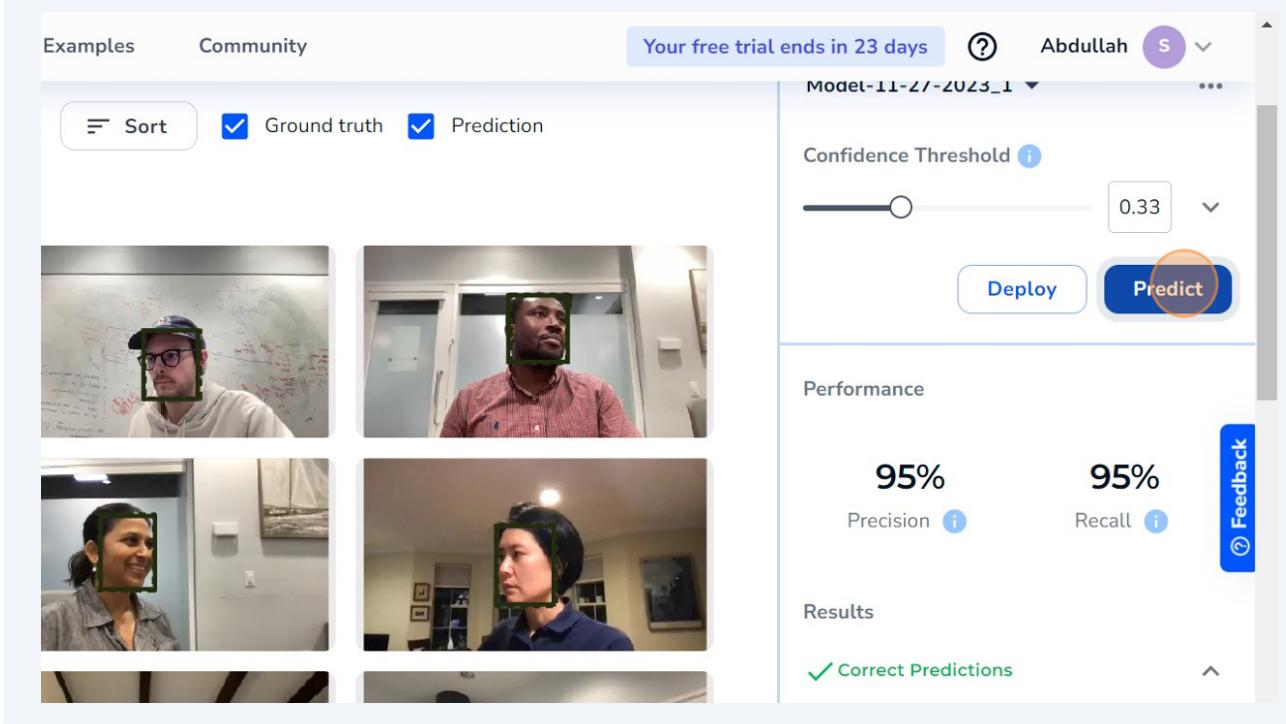
Image set used to develop a facial focus detection application, whether the faces are directly facing the camera or not.

objects by prompting area

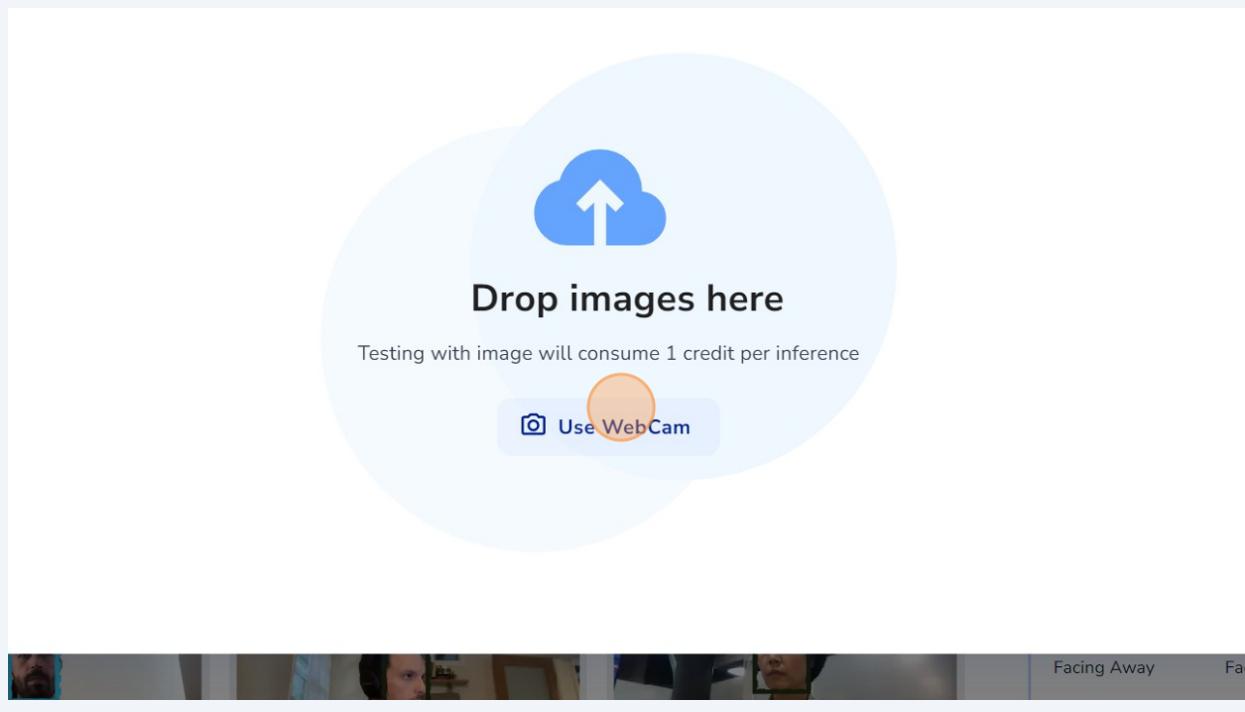
- 7 Click "Train". It will take a moment to finish training. The training will cost you 20 credits out of 1000 initial credits when you create the account.



- 8 Click "Predict"



9 Click "Use WebCam"

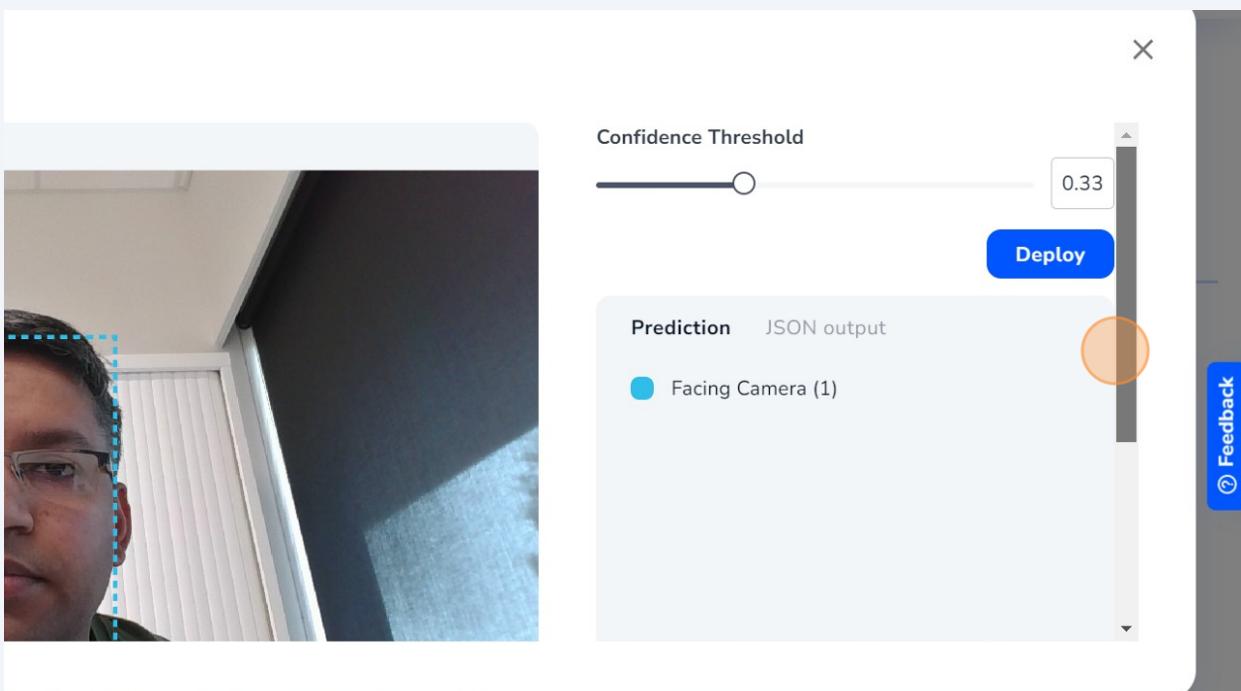


10 Look at your webcam and capture an image.

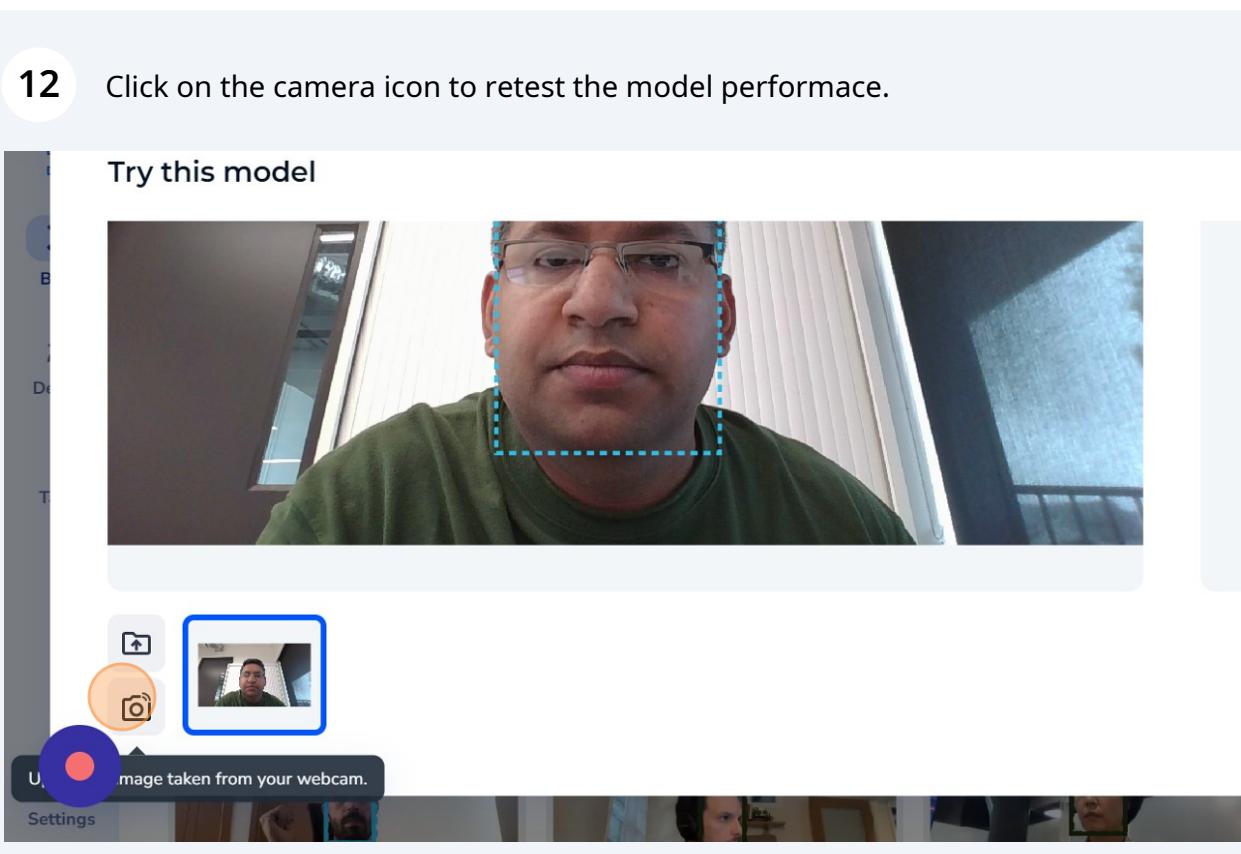
odel



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

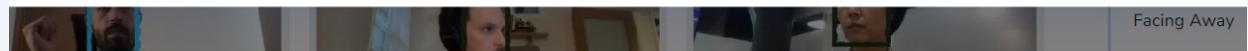


- 12** Click on the camera icon to retest the model performance.



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

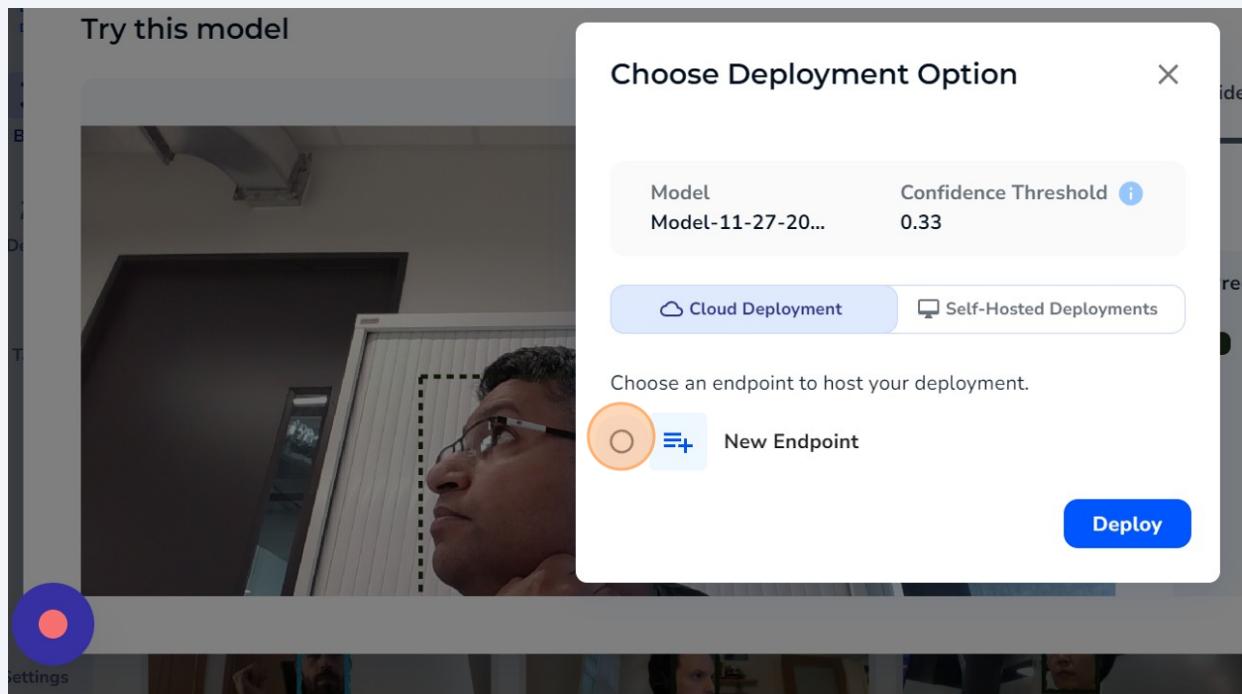
Model



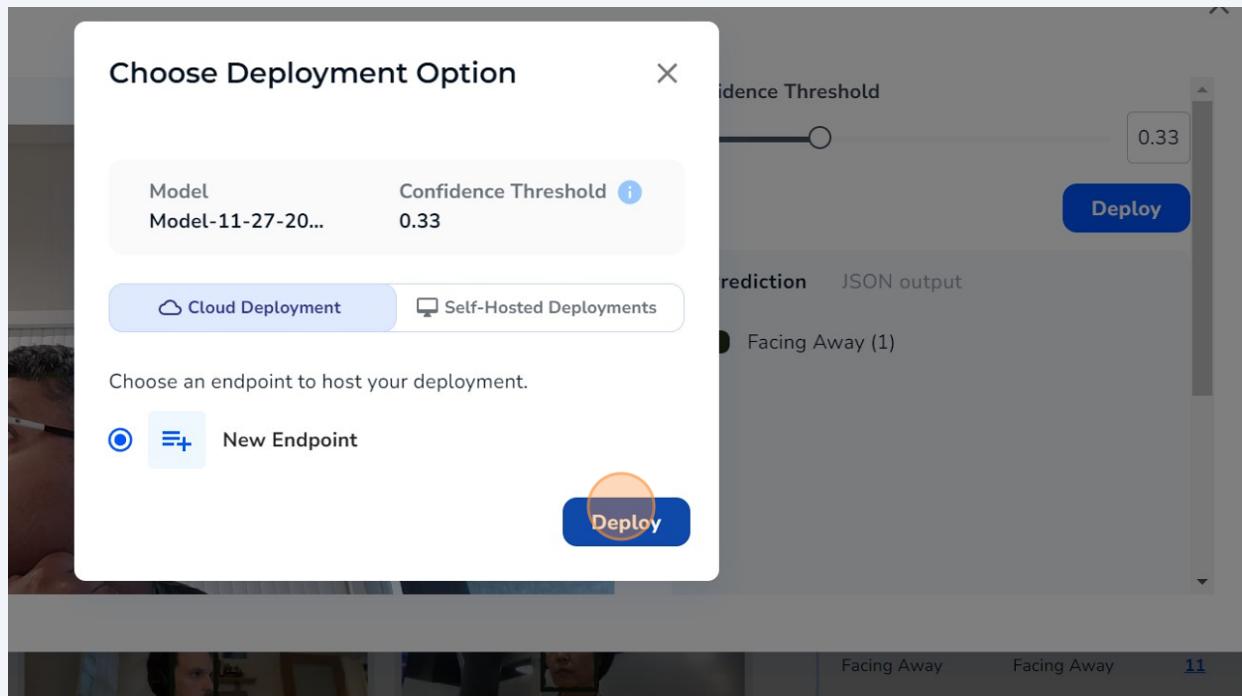
- 14** Once happy, you can deploy the model on the cloud and share with others.

A screenshot of a web-based application for deploying a machine learning model. At the top, there are navigation links for "Examples" and "Community", a trial notice ("Your free trial ends in 23 days"), and a user profile ("Abdullah"). Below this is a main panel. On the left is a preview video feed showing a person's profile view. 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.

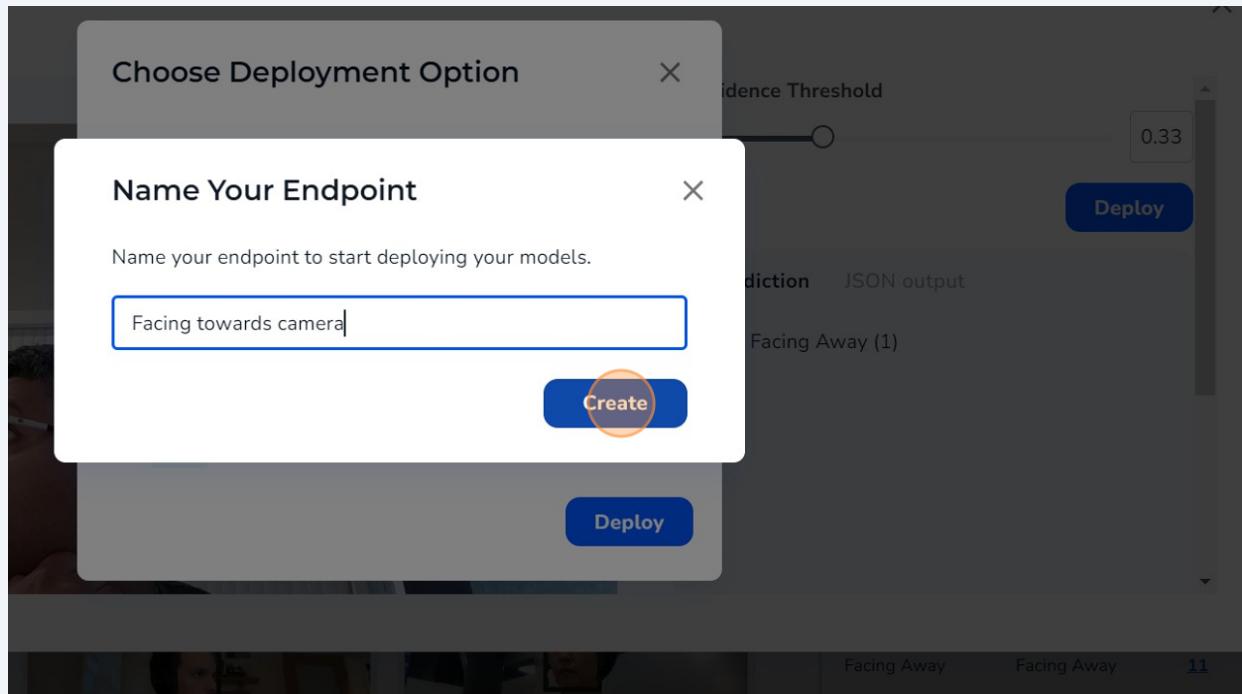


16 Click "Deploy"



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

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



19

Accessing your model is possible using multiple programming languages, like Python and Javascript. Alternatively, you can select Get QR Code for smart device compatibility with the model outcome.

The screenshot shows the landing.ai API Inference interface. At the top left is a blue and white cloud icon. Below it is the text "API Inference". Underneath are three tabs: "Python SDK" (which is selected), "Javascript SDK", and "cURL Command". A large code block below the tabs contains Python code for performing inference on an image using the Predictor API. To the right of the code is a "Copy" button. Below the code block are two links: "View API Key & Secret" and "Please refer to [Python SDK documentation](#)". On the far right, there is a "Feedback" button. At the bottom right of the main panel is a circular orange callout pointing towards the "Mobile Inference" section. The "Mobile Inference" section features a purple smartphone icon with a camera lens. Below the icon is the text "Mobile Inference". Further down, there is a note: "Generate a QR code and share others so they can run inference on their phones". A "Get QR Code" button is located at the bottom right of this section. The entire interface has a light gray background with dark gray horizontal and vertical scroll bars.

20

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", "Community", and a trial status message "Your free trial ends in 23 days". On the right, there is a user profile for "Abdullah" with a dropdown arrow. Below this, a large white box contains the text "Scan and run inference on your phone!" above a large QR code. A small orange circle with a white "X" is positioned above the QR code. At the bottom of this box is a "Turn It Off" link. To the right of the QR code is another QR code labeled "Mobile Inference". Below this QR code is a note: "Anyone with the QR code can run inference and consume your credits. Each inference 1 credit per image." At the bottom left of the white box is an icon of three gold coins. At the bottom right of the white box is a "Turn It Off" link. A blue "Feedback" button is located on the far right edge of the white box. The background of the entire interface is a dark gray color.