

**Team members:** Jaryd Meek, Elena Smith, Emily Parker

**Labels of the three classes:**

- Baseball
- Lightbulb
- Plant

5 Screenshots of you testing your model. Include one screenshot for each object. Your screenshot should clearly show the object and the class labels.

**Baseball -**

The screenshot displays the Teachable Machine web application interface. On the left, there are three class panels: 'Plant', 'Baseball', and 'Lightbulb'. Each panel shows '10 Image Samples' and includes 'Webcam' and 'Upload' buttons. Below these panels is a dashed box with the text 'Add a class'. In the center, a 'Training' panel indicates 'Model Trained' and has an 'Advanced' dropdown menu. On the right, a 'Preview' panel shows a live webcam feed of a baseball being held. Below the feed, the 'Output' section displays three colored bars: an orange bar for 'Plant', a red bar for 'Baseb...' (Baseball) at 100%, and a purple bar for 'Light...'. The bottom right corner of the interface shows a language dropdown set to 'English (U.S.)' and a version/release string 'release-2-3-1 - 2.3.1#3c7749 - 99'.

Plants -

Teachable Machine

Plant

10 Image Samples

Webcam

Upload

Baseball

10 Image Samples

Webcam

Upload

Lightbulb

10 Image Samples

Webcam

Upload

Add a class

Training

Model Trained

Advanced

Preview

Export Model

Input

ON

Webcam

Output

Plant 92%

Baseb...

Light...

English (U.S.)

release-2-3-1 - 2.3.1#3c7749 - 99

Teachable Machine

Plant

10 Image Samples

Webcam

Upload

Baseball

10 Image Samples

Webcam

Upload

Lightbulb

10 Image Samples

Webcam

Upload

Add a class

Training

Model Trained

Advanced

Preview

Export Model

Input

ON

Webcam

Output

Plant 100%

Baseb...

Light...

English (U.S.)

release-2-3-1 - 2.3.1#3c7749 - 99

# Lightbulbs -

## Teachable Machine

**Plant** ✎

10 Image Samples

Webcam Upload

**Baseball** ✎

10 Image Samples

Webcam Upload

**Lightbulb** ✎

10 Image Samples

Webcam Upload

✚ Add a class

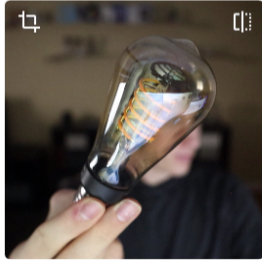
**Training**

Model Trained

Advanced ▾

**Preview** Export Model

Input ☒ ON Webcam ▾



Output

Plant

Baseb...

Light...

English (U.S.) ▾ release-2-3-1 - 2.3.1#3c7749 - 99

## Teachable Machine

**Plant** ✎

10 Image Samples

Webcam Upload

**Baseball** ✎

10 Image Samples

Webcam Upload

**Lightbulb** ✎

10 Image Samples

Webcam Upload

✚ Add a class

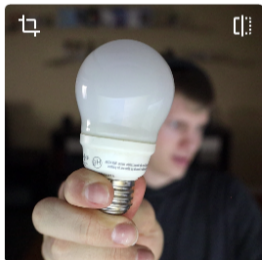
**Training**

Model Trained

Advanced ▾

**Preview** Export Model

Input ☒ ON Webcam ▾



Output

Plant

Baseb...

Light...

English (U.S.) ▾ release-2-3-1 - 2.3.1#3c7749 - 99

1. If someone were to use your model in real life, what problems would they have?

They could possibly have problems with getting lightbulbs and baseballs confused, as well as getting baseball and plants confused. This is because a lightbulb is a round white object similar to a baseball, so the AI could get confused between them. Baseball and plants could get confused since the images I used for baseball include plants in the background (as baseballs are usually around grass) and this could possibly confuse the AI.

2. What could you do to mitigate those problems?

Find better sample images. Make sure that the baseball images show the laces clearly, which should make the AI more accurate if it can find the laces on the image. Also, I could use pictures of baseballs without grass to train the AI so that it wouldn't risk getting confused between baseball and plants.

### **Feedback:**

- Write a short paragraph reviewing your partner's model. Include what worked well and **at least 2** example situations where someone might encounter problems with their model.

### **Elena Smith -**

One thing that worked well is the lightbulbs! I was surprised that the clear lightbulb you tested was strongly identified as a lightbulb. I would've thought that background interference would make the model misidentify clear lightbulbs. One problem was that your model slightly confused one of your plants with a baseball or lightbulb. I thought that maybe the problem with that plant tested is that it was in a round pot that may look similar to a baseball or lightbulb. So someone could potentially encounter problems with your model if they have plants in round or white pots. Another problem that someone might run into is perhaps if the plant being tested looks significantly different from the sample plant photos you inputted into the model. To fix that, you could just add more plant sample images.