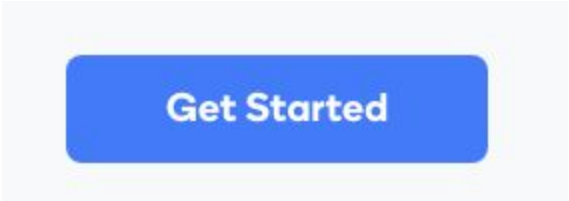


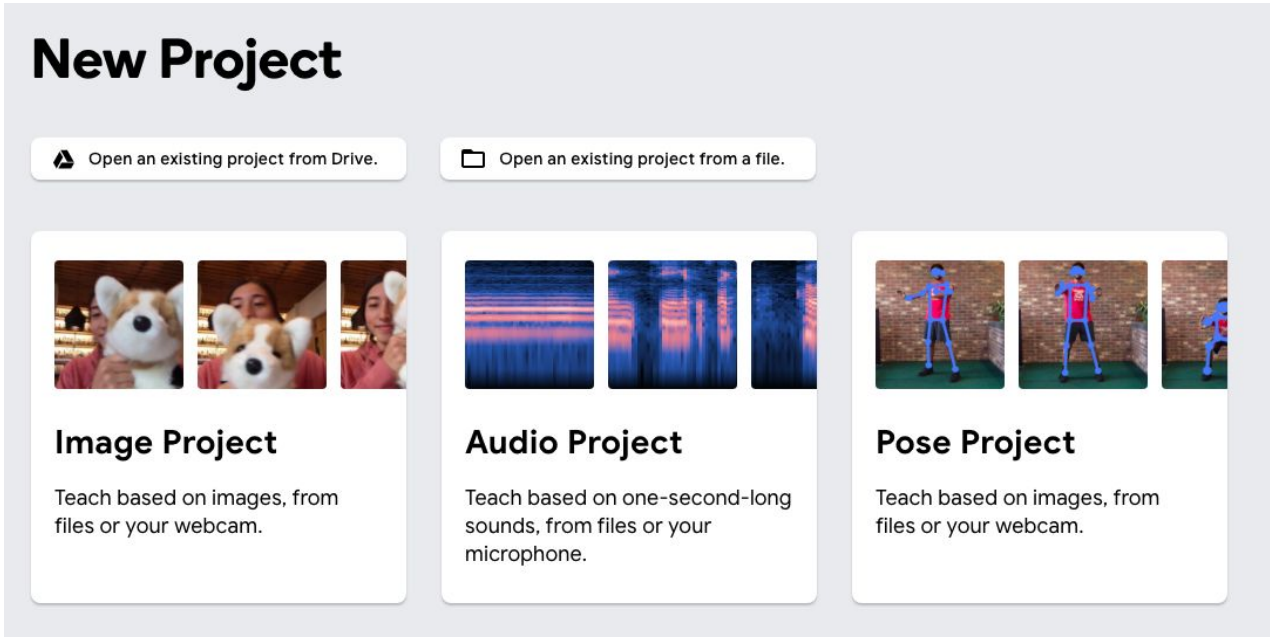
● **Steps for creating a model and export it -**

1. Run <https://teachablemachine.withgoogle.com/> -



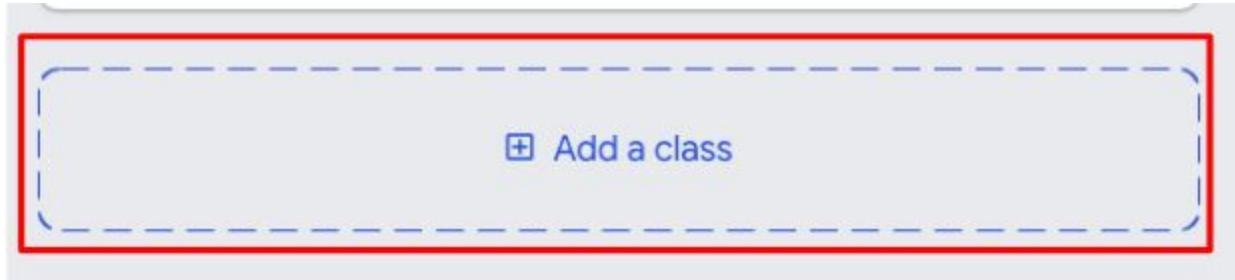
Then click on Get Start button -

2. Now click on **Image Project** -

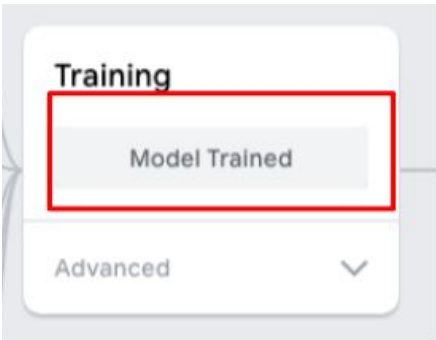


Now change the name of the classes as per the object you have used .  
And add 90-100 images of the objects you want to use in each class.

If using more the 2 objects the press Add Class button



And give an appropriate name to the classes, and add 90-100 images for that object.



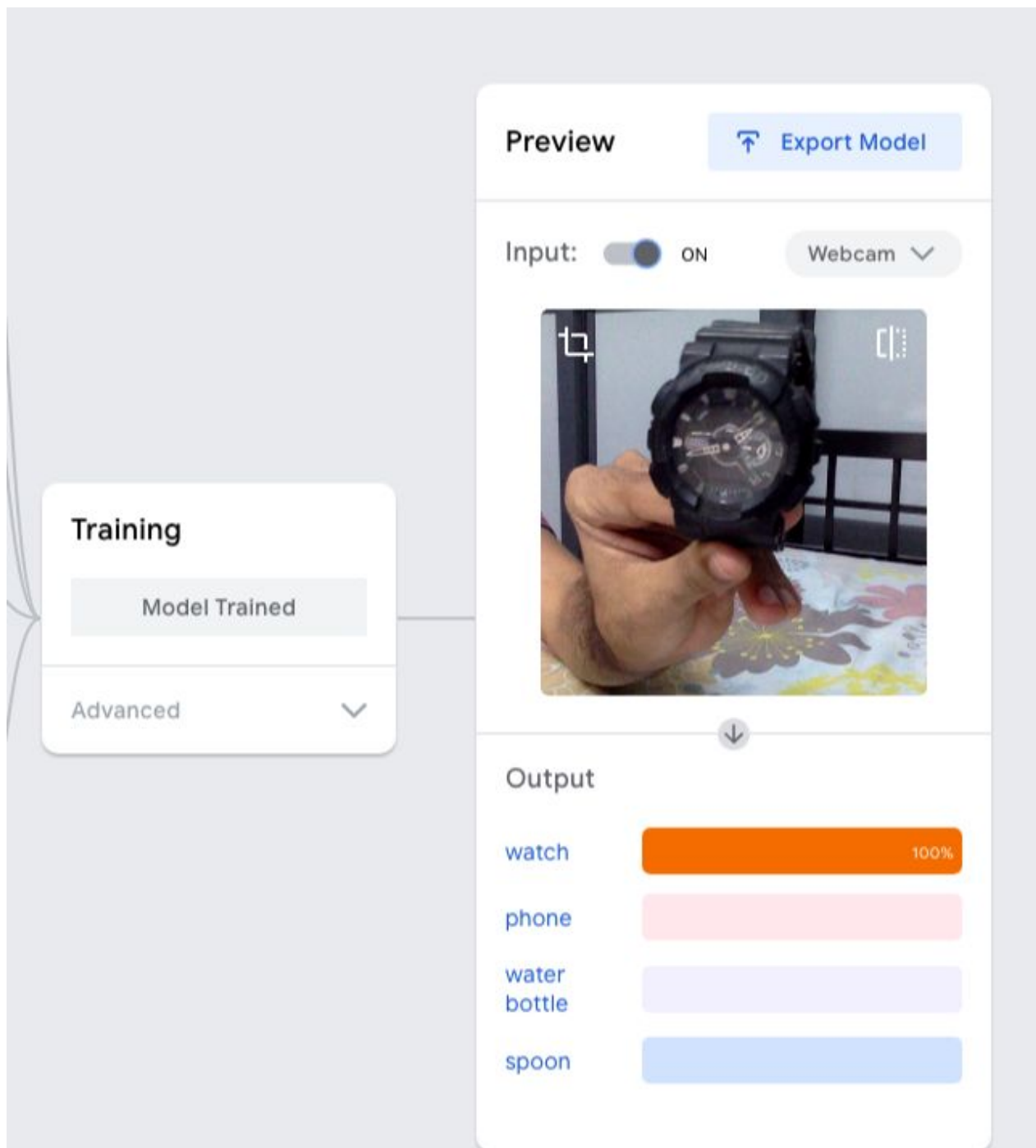
3. Now Train the model by clicking model Train button

4. After training is done, on the right hand side, a preview tab will be open. Do a short test by showing the images one by one, and you will see the result. It also shows you how confident the model is.

Eg - I am showing watch, and I am getting the output as 100% watch

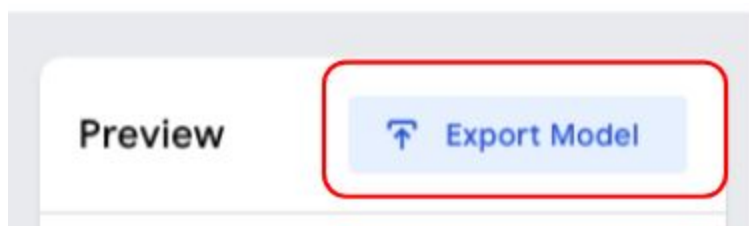
watch



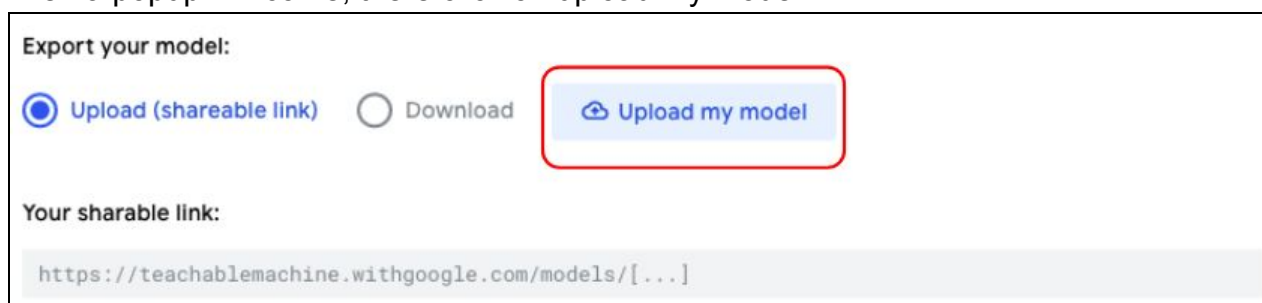


Great!

5. Now we will export this model, by clicking on the export model button, as given in the below image.



Then a popup will come, there click on upload my model



This means you have uploaded your model on cloud, and you will get a link like this -

Export your model to use it in projects. X

Tensorflow.js ⓘTensorflow ⓘTensorflow Lite ⓘ

Export your model:

☒ Upload (shareable link)☐ Download

Your sharable link:

https://teachablemachine.withgoogle.com/models/A0x4AHMxu/

Copy

And this link will be used to import the model in our webapp.

**Copy this link and save it in your system, anywhere like in notepad, in notes, anywhere but keep it safe, as we will need this link in the next class.**

- Prewritten HTML code given to you -

```
<html>
<head>
  <title>Image recognition</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/webcamjs/1.0.26/webcam.js"></script>
  <link rel="stylesheet" href="style.css">
</head>
<body>
<div class="container">

  <center>
    <br><br>
    <p>Model is trained to identify the following objects: </p>
    <label>Webcam View - </label>
```

Our style link

Webcam.js link

Bootstrap links

```
<label>Webcam View - </label>

<br><br>

<br><br>

<br><br>

<br><br>

<p>Object : </p>
<p>Accuracy : </p>
</center>

</div>
<script src="main.js"></script>
</body>
</html>
```



Our JS link

- Complete HTML code after adding
  1. Heading
  2. Mentioned the elements used in the model
  3. Div for holding Webcam live view
  4. Div for holding the Captured image
  5. Adding snapshot button
  6. Adding Identify Image button
  7. Adding elements for holding object name and accuracy.



```

<center>
  <h3 class="btn btn-default heading">IMAGE RECOGNITION</h3>
  <br><br>

  <p style="font-size: 22px;">Model is trained to identify the following objects: </p>

  <b class="name_of_objects">
    Watch
    <hr>
    Spoon
    <hr>
    Phone
    <hr>
    Water Bottle
    <hr>
  </b>

  <label>Webcam View - </label>
  <div id="camera"></div>
  <br><br>
  <div id="result"></div>
  <br><br>
  <button onclick="take_snapshot();" class="btn btn-info">Capture Image</button>
  <br><br>
  <button onclick="check();" class="btn btn-success">Identify Image</button>
  <br><br>

  <p style="font-size: 22px;">Object : <span id="result_object_name"></span> </p>
  <p style="font-size: 22px;">Accuracy : <span id="result_object_accuracy"></span> </p>
</center>

```

Output -



