Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Stryker Teachathon</title>

    <link rel="stylesheet" href="style.css" />

</head>

<body>
  <nav id="navbar" class="">
    <div class="nav-wrapper">
      <div class="logo">
        <!-- Logo Placeholder for Inlustration -->
        <a href="index.html"><i class=""></i><img src="Logo.png" width="200" height="80"></a>
      </div>
      <ul id="menu">
        <li><a href="index.html">Home</a></li>
        <li><a href="demo.html">Demo</a></li>
        <li><a href="about.html">About</a></li>
      </ul>
    <div>
```

```
  </nav>
  <div class="content">
    <h2 class="title"><span style="color: #FAAB05;">Stryker</span> Techathon</h1>
    <div class="idea">
      <br>
      <p>Hip or Knee replacement post surgery issue identification using Computer Vision</p>
    </div>


  </div>
</body>
```

Demo.html

```
<!DOCTYPE html>
<html lang="en">
<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Stryker Teachathon</title>

  <link rel="stylesheet" href="style.css" />


</head>

<body onload="init()">
```

```html
<nav id="navbar" class="">

    <div class="nav-wrapper">

        <div class="logo">

            <!-- Logo Placeholder for Inlustration -->

            <a href="#home"><i class=""></i><img src="Logo.png" width="200" height="80"></a>

        </div>

        <ul id="menu">

            <li><a href="index.html">Home</a></li>

            <li><a href="demo.html">Demo</a></li>

            <li><a href="#about">About</a></li>

        </ul>

    <div>

    </nav>

    <div class="below-nav">

        <div class="vision">

            <div><canvas id="canvas"></canvas></div>

            <div id="label-container"></div>

        </div>

    </div>

    <script src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@1.3.1/dist/tf.min.js"></script>

    <script src="https://cdn.jsdelivr.net/npm/@teachablemachine/pose@0.8/dist/teachablemachine-pose.min.js"></script>

    <script src="script.js"></script>
</body>
```

Script.js

```javascript
const URL = "https://teachablemachine.withgoogle.com/models/yeJj93Mq5/";

let model, webcam, ctx, labelContainer, maxPredictions;

async function init() {

    const modelURL = URL + "model.json";

    const metadataURL = URL + "metadata.json";




    // load the model and metadata




    model = await tmPose.load(modelURL, metadataURL);

    maxPredictions = model.getTotalClasses();



    // Convenience function to setup a webcam

    const size = 600;

    const flip = true; // whether to flip the webcam
```

```
    webcam = new tmPose.Webcam(size, size, flip); // width, height, flip

    await webcam.setup(); // request access to the webcam

    await webcam.play();

    window.requestAnimationFrame(loop);



    // append/get elements to the DOM

    const canvas = document.getElementById("canvas");

    canvas.width = 500; canvas.height = 550;

    ctx = canvas.getContext("2d");

    labelContainer = document.getElementById("label-container");

    for (let i = 0; i < maxPredictions; i++) { // and class labels

        labelContainer.appendChild(document.createElement("div"));

    }

}
```

```
async function loop(timestamp) {

    webcam.update(); // update the webcam frame

    await predict();

    window.requestAnimationFrame(loop);

}



async function predict() {

    // Prediction #1: run input through posenet

    // estimatePose can take in an image, video, or canvas html element

    const { pose, posenetOutput } = await model.estimatePose(webcam.canvas);

    // Prediction 2: run input through teachable machine classification model

    const prediction = await model.predict(posenetOutput);
```

```javascript
for (let i = 0; i < maxPredictions; i++) {

    const classPrediction = prediction[i].className;

    const probability = prediction[i].probability.toFixed(2) * 100; // Convert probability to
percentage

    // Update the label with class prediction and probability

    labelContainer.childNodes[i].innerHTML = `${classPrediction}: ${probability}%`;

    // Create a visual bar

    const bar = document.createElement('div');

    bar.style.width = `${probability}%`;

    bar.style.height = '20px';  // Adjust the height of the bar

    // Set the bar color based on class (assuming the first class should be red)

    if (i === 0) {
```

```
        bar.style.backgroundColor = 'green';

        bar.style.borderRadius = '30px';


    } else {


        bar.style.backgroundColor = 'red';  // Color other classes as red

        bar.style.borderRadius = '30px';


    }




    // Append the bar to the labelContainer

    labelContainer.childNodes[i].appendChild(bar);


    }


  // finally draw the poses

  drawPose(pose);

}

function drawPose(pose) {
```

```
    if (webcam.canvas) {

      ctx.drawImage(webcam.canvas, 0, 0);

      // draw the keypoints and skeleton

      if (pose) {

        const minPartConfidence = 0.5;

        tmPose.drawKeypoints(pose.keypoints, minPartConfidence, ctx);

        tmPose.drawSkeleton(pose.keypoints, minPartConfidence, ctx);

      }

    }

  }
```

About.html

```
<!DOCTYPE html>
<html lang="en">
<head>

  <meta charset="UTF-8">
```

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Stryker Teachathon</title>

    <link rel="stylesheet" href="style.css" />

</head>

<body>
    <nav id="navbar" class="">
        <div class="nav-wrapper">
            <div class="logo">
                <!-- Logo Placeholder for Inlustration -->
                <a href="index.html"><i class=""></i><img src="Logo.png" width="200" height="80"></a>
            </div>
            <ul id="menu">
                <li><a href="index.html">Home</a></li>
                <li><a href="demo.html">Demo</a></li>
                <li><a href="about.html">About</a></li>
            </ul>
        <div>
    </nav>
    <div class="developers">
        <br>
        <br>
        <h1 class="dev" style="color: #FAAB05;">Developers</h1>
        <div class="photos">
            <div>
```

```html
        <img src="Akhil-Majety.jpg" class="pic" width="200" height="200">

        <h1 class="names">Akhil Majety</h1>

        <p class="role">IT Technical Analyst</p>

        <p>Commerical International - Emerging Markets</p>

      </div>

      <div>

        <img src="pallavi.jpg" class="pic" width="200" height="200">

        <h1 class="names">Pallavi C</h1>

        <p class="role">IT Technical Analyst</p>

        <p>Commerical International - Emerging Markets</p>

      </div>

    </div>


  </div>
</body>
```

Style.css

```css
* {
  border: 0;
  box-sizing: border-box;
  margin: 0;
  padding: 0;
}

body {
  background: rgb(250, 250, 250) url('Ortho-Bg.jpg');
  font-family: Lato, Helvetica, Arial, sans-serif;
```

```css
}

a {
  color: inherit;
  font-family: inherit;
  font-size: inherit;
  text-decoration: none;
}

#navbar {
  color: white;
  position: fixed;
  top: 0;
  height: 60px;
  line-height: 60px;
  width: 100vw;
  z-index: 10;
}

.nav-wrapper {
  margin: auto;
  text-align: center;
  width: 70%;
}

.logo {
  float: left;
```

```css
  margin-left: -180px;

  margin-top: 18px;

}


#navbar ul {

  display: inline-block;

  list-style: none;

  margin-top: -2px;

  text-align: right;

  transition: transform 0.5s ease-out;

  -webkit-transition: transform 0.5s ease-out;

  margin-top: 30px;

}


#navbar li {

  display: inline-block;

}


#navbar li a {

  color: white;

  display: block;

  font-size:medium;

  height: 50px;

  letter-spacing: 1px;

  margin: 0 20px;

  padding: 0 4px;

  position: relative;

  text-decoration: none;
```

```css
    text-transform: uppercase;

    transition: all 0.5s ease;

    -webkit-transition: all 0.5s ease;

}


#navbar li a:hover {

  /* border-bottom: 1px solid rgb(28, 121, 184); */

  color: rgb(28, 121, 184);

  transition: all 1s ease;

  -webkit-transition: all 1s ease;

}


/* Animated Bottom Line */

#navbar li a:before, #navbar li a:after {

  content: '';

  position: absolute;

  width: 0%;

  height: 1px;

  bottom: -1px;

  background: rgb(13, 26, 38);

}


#navbar li a:before {

  left: 0;

  transition: 0.5s;

}


#navbar li a:after {
```

```css
    background: rgb(13, 26, 38);

    right: 0;

    /* transition: width 0.8s cubic-bezier(0.22, 0.61, 0.36, 1); */

}


#navbar li a:hover:before {

    background: rgb(13, 26, 38);

    width: 100%;

    transition: width 0.5s cubic-bezier((0.22, 0.61, 0.36, 1));

}


#navbar li a:hover:after {

    background: transparent;

    width: 100%;

    /* transition: 0s; */

}


.content{

    margin-top: 260px;

    text-align: left;

    margin-left: 150px;

}


.title{

    color: white;

    font-size:50px;

    font-weight: bold;

    margin-left: 200px;
```

```css
}
.idea{
  color: white;
  font-size:30px;
  font-weight: normal;
  width: 60%;
  text-align: center;
}

.name{
  font-weight: bold;
  margin-bottom: 5px;
}

.below-nav{
  margin-top: 80px;
  background-color: white;
  height: 550px;
  margin: 50px 90px 50px 90px;
  border-radius: 8px;
}

.vision{
  display: grid;
  grid-template-columns: 1fr 1fr;
  grid-gap: 5px;
  margin: 120px 40px 20px 100px;
```

```css
}

#label-container{

  margin-top: 200px;
  font-size: larger;
}

.developers{
  margin-top: 100px;
  background-color: white;
  height: 550px;
  margin: 100px 90px 50px 90px;
  border-radius: 8px;
  text-align: center;
}

.photos{
  display: grid;
  grid-template-columns: 1fr 1fr;
  grid-gap: 0px;
  margin-top:100px;
  text-align: center;
}

.pic{
  border-radius: 50px;
}
```

```css
.role{
  font-weight: 600;
}
.names{
  padding-bottom: 5px;
}
```