ADVANCE

AI MUSIC WEB APP - 3

WhiteHat Jr
Live Online Coding for Kids

INSTRUCTIONS:

Goal of the Project:

In class 128, you have added some JS code of the posenet model, and fetching the x and y coordinates of the left and right wrist.

In this project you have to add JS code for initializing and executing a posenet model, and write code for fetching the x and y coordinates of left and right wrist.

**** This is a continuation of the project we did for Class 126 and 127. Please complete those projects before attempting this project ****

Story:

Party Master is an event hosting company. This time they have got an offer to host an event at an old age home. So they are planning to have one of the old grandpa to be the DJ. Since an old grandpa will be playing the DJ they want it to be simple, where a grandpa can play music just by raising his hands. And they want someone to build this awesome web app for them.
You have been doing very well till now , for this project you have to add JS code for initializing and executing a posenet model, and write code for fetching the x and y coordinates of left and right wrist.

Getting Started:

Start JS coding in **main.js** file. You will find this file in the **AI-Music-Web-App** folder which you created in the project no. 126.

Specific Tasks to complete the Project:

1. Define 4 variables with a value of 0 at the beginning of the main.js file. These 4 variables will be used to hold the x and y coordinates of the left and right wrist.
2. Write code for **initializing** posenet model inside **setup()** function.
3. Write code for **modelLoaded()** function. This function will give confirmation that the posenet model is loaded.
4. Write code for **executing** posenet model inside **setup()** function.
5. Write code for **gotPoses()** function. This function will be having the result coming from the posenet model which will be containing x and y coordinates of each body part. Inside **gotPoses()** function:

- Add an “if condition” to check that the results coming from the posenet model is greater than 0. This is done to avoid errors if the result is empty.
- Then inside this “if condition” write code for fetching x and y coordinates of the left and right wrist, and assign x and y coordinates of the left and right wrist to their respective variables.

Submitting the Project:

IF you have not created a repository in the previous project and this is the first time you are hosting an AI Music Web App project on GitHub then:

1. Upload all the files which you have created in the **AI-Music-Web-App** folder on GitHub.
2. You can get the steps to do this by clicking on this link.
3. Copy the hosted link which you will get after uploading all your files on GitHub and submit it in the Student Dashboard Projects panel against the correct class number.

OR

IF you have already hosted AI Music Web App project on GitHub then:

1. Upload the 2 music files which you have downloaded on GitHub.
2. Reupload **main.js** file on GitHub, this is done because you have made changes in this file.
3. You can get the steps to do this by clicking on this link.
4. Copy the hosted link which you will get after uploading all your files on GitHub and submit it in the Student Dashboard Projects panel against the correct class number.

DO NOT TRY TO HOST THIS ON DRIVE TO WEB BECAUSE WE WILL BE USING AUDIO FILES IN THIS PROJECT AND DRIVE TO WEB WON’T SUPPORT

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Hints:

1. **Initializing** posenet:
    - Use ml5.js library name with a dot operator and **posenet()** function.
    - Pass the variable which holds the video component and **modelLoaded()** function to **posenet()** function
    - Store it in a variable, so that we can use this variable while executing the posenet model. Write this code inside the **setup()** function of p5.js.
2. **Executing** posenet:
    - Use the variable which holds the posenet model of ml5.js with a dot operator and **on()** function.
    - Pass 'pose' string and **gotposes()** function to the **on()** function. Write this code inside the **setup()** function of p5.js.

REMEMBER... Try your best, that's more important than being correct.
After submitting your project your teacher will send you feedback on your work.

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