

Capstone for Artificial Intelligence Course

Hello!

Hope you had a good hands-on learning experience in creating AI trained models on Google's Teachable Machine platform and programming the same on Dancing With AI platform for the projects ATL component identifier and Audience Sentiment Analyzer. These projects would have given you a chance to build and apply your technical skills on Artificial Intelligence. You are now ready to take on a challenge and solve an interesting problem by applying Artificial Intelligence.

Problem Statement:

In the Audience Sentiment Analyzer project, you had built an AI model that will analyse a few captured sentiments of the audience. In this capstone, you will develop a similar AI model but one that is applicable for a completely different scenario. Let us understand this new scenario.

While listening to music on some platforms such as YouTube or Spotify, there might have been times when you were mesmerized by the sound of one of the instruments used in the music composition. Trained singers and musicians are able to identify the instruments used in a music composition easily because of the years of practice they have listening to different types of music. But this task is very difficult for casual listeners and amateur musicians. In this capstone, you will develop an AI model that will analyse and identify the sounds created by different instruments to help casual listeners and amateur musicians learn and appreciate the music.

Hint: You will need audio samples of sounds created by individual instruments to train your model

Submit your Capstone by following the steps below:

1) Click on this link to access the Onedrive location where you need to upload your solution files
[Link to Artificial Intelligence Capstone Folder](#)

2) Create a folder with your full name followed by the school's name, district name, state name as shown below

Emerging Technologies Program FY22-23 > Student Capstone Submissions > Artificial Intelligence Capstone

Name	Modified	Modified By	File size	Sharing
Neha Mittal_GHSS, Belagavi, Karnataka	5 hours ago	Technology Innovation	1 item	Shared

3) Upload the Teachable Machine Trained Model Link in and the Dancing With AI file in .sb3 format of your project as shown below

Student Capstone Submissions > Artificial Intelligence Capstone > Neha Mittal_GHSS, Belagavi, Karnataka

Name	Modified	Modified By	File size	Sharing
Capstone Project_DancingWithAI.sb3	A few seconds ago	Technology Innovation	16.7 KB	Shared
Teachable Machine_Trained Model_Link.TXT	14 minutes ago	Technology Innovation	57 bytes	Shared

Prerequisite:

Ensure that you have gone through all the videos and completed the projects of the Artificial Intelligence course on Planetcode.in portal. The course content will equip you to solve the problem given in this capstone. If you have not completed the course or would like to revise the content, please go to the platform <https://planetcode.in/> before you proceed.

Platforms / Tools Needed:

Google Teachable Machine: <https://teachablemachine.withgoogle.com/>

Dancing with AI using Scratch <https://dancingwithai.media.mit.edu/>