

Deploy - Pose model

What is our GOAL for this MODULE?

We added a machine learning pose model to elevate the user interactions in the biker game.

What did we ACHIEVE in the class TODAY?

• We deployed a pose model in the pictoblox game

Which CONCEPTS/CODING BLOCKS did we cover today?

- Create a pose model in the teachable machine platform.
- Use the extension of the machine learning models.
- Deployment of a pose model in pictoblox.
- Utilize model related blocks to edit the game.

How did we DO the activities?

Activity 1: Create a pose model.

Task: Create a pose model using a webcam and the dataset. Export the model link.

Steps:

- Opened the teachable machine.
- 2. Clicked on the pose model.
- 3. Created the following classes:
 - Jump
 - Don't Jump
- 4. Used a webcam to add data samples.
 - Changed recording settings for recording duration 30 secs
 - Added delay of 2 secs
 - Saved
 - Gave a proper pose for jump and didn't jump classes.

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- Uploaded the images dataset.
 - o Jump dataset:
 - Drive
 - File
 - o **Don't Jump** dataset:
 - Drive
 - File
- 6. We trained the model.
- 7. Tested the model for the classes.
- 8. Exported the model.
- 9. Uploaded the model to the cloud.
- 10. Copied the model link.
- 11. Saved the link on your device (notepad)

Activity 2: Deploy the model

Task: Deployed the model in the pictoblox dirt game project.

Steps:

- 1. Opened the pictoblox application.
- 2. Clicked File→ Clicked Open→ Clicked Open from computer→ Selected our previous dirt bike game (.sb3 file).
- Clicked on the Add extension button.
- 4. Selected Machine learning extension
- 5. Clicked the load model option.
- 6. Choose a **pose model**.
- 7. Copied the **link** that we received from the teachable machine.

Type the link if you are using macOS.

- 8. Added an open **recognition window** block after the repositioning statement of the biker.
- 9. Added an **if-else block** in the forever loop of the event.
- 10. **IF**;
- The class identified is Jump.
- Broadcasted the message "Jump."
- 11. Else;
 - Glide back to the position -134 and -120
 - Switch the costume back to atv.
- 12. Added an **event** to **receive Jump** as a message.
- 13. Dragged all the blocks under the event "When space key pressed."

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- 14. To the event When I receive Jump
- 15. Test run the project.
- 16. Added an **if-block**
- 17. Got the **Not condition block** from the **operators**.
- 18. Got the equal to block and snapped inside the Not block.
- 19. To the left, we needed the name of the costume.
- 20. Got the Costume name block from looks.
- 21. To the right, we needed text "motocross" (this is the name of the costume)
- 22. Ensured all the statements should be inside the if-block.
- 23. Test the Project again.

What's NEXT?

In the next class, we will learn about more deployments and projects in pictoblox.