AI in Real World

PG-131

Learning Outcomes

✓ Features of Robot
✓ Male and Female Detection

✓ How are Robots Programmed?
✓ Bird Detection

• LET'S RECAP ▶ •

Critical Thinking

Identify the gender of the given images and write their gender (male or female):

FEMALE

MALE

As we can identify the gender, AI can also do this. We can also do coding in AI Connect to identify the gender (male or female) of an image.

QUEST

State whether these statements are true or false.

1. Robots can work in a specific temperature only. **FALSE**

2. Click on Browse button to capture image using webcam. **FALSE**

3. "==" block is present under Logic category. **TRUE**

4. Robots are powerful machine due to the strong programming that enables them to work. **TRUE**

LET'S REFRESH

- Robots never get tired for doing repetitive tasks.
- In AI Connect, object detection can be used to count the items in an image/video.
- Facial Features sub-category is present under AI Learning category of block palette.

EXERCISE

A. Tick (✓) the correct option.

1. During COVID-19, people were able to get food and medicine due to _____.

   (i) Artificial Intelligence ☐   (ii) Robotics ☐

   (iii) Both (i) and (ii) ☑   (iv) None of these ☐

2. Create _____ activity in AI Connect to create a program to detect male and female.

   (i) Basic Coding ☐   (ii) AI Coding ☑

   (iii) Face Coding ☐   (iv) None of these ☐

3. Under _____ category, if-do block is present.

   (i) Loops ☐   (ii) Logic ☑

   (iii) AI Learning ☐   (iv) Facial Feature ☐

B. Answer the following questions:

1. Write any three features of robots.

   • **Robots make complex tasks easy.**
   • **They never get tired for doing repetitive tasks.**
   • **They can work anywhere.**

2. How can you load image using Load Image block in AI Connect?

Click on the 'image icon' of the Load Image block. Click on Browse button to load image from the computer or click on 'Capture' to capture an image using a webcam. Click on the Submit button after loading an image.

FUN ZONE — Computational Thinking

Given code is of a program in which when you upload the image it will tell whether it is a boat or not. There is an error in this code. Find the error in the given code. And write how can you correct it.

In the given code Load Image block is not present.
To correct the code, add Load Image block at the top of the code.
To add Load Image block, extend the AI Learning category from the block-palette and select the Facial Feature sub-category. Then add Load Image block at the top of the code.

Competency-based/Application-based questions — Information Literacy

1. Suppose, you have to create a project in AI Connect. In it you have to add else block in if-do block. On which button should you click to do so?

2. Ravi have to add Get male count block in the script area in AI Connect. From which block category can he do so?

1. Setting the button of if-do block.
2. From AI Learning category