

input image (test1.jpg)



## Output

```
1/1 [=====] - 1s 1s/step  
Class: Robot Arm  
Confidence Score: 0.9955468
```





input image (test1.jpg)



Output



1/1 [=====] -  
Class: Humanoid Robot  
Confidence Score: 0.9883116



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Files

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▶ 📁 sample\_data

📄 keras\_model.h5

📄 labels.txt

📄 test1.jpg

3s

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```
from keras.models import load_model # TensorFlow is required for Keras to work
from PIL import Image, ImageOps # Install pillow instead of PIL
import numpy as np

# Disable scientific notation for clarity
np.set_printoptions(suppress=True)

# Load the model
model = load_model("keras_model.h5", compile=False)

# Load the labels
class_names = open("labels.txt", "r").readlines()

# Create the array of the right shape to feed into the keras model
# The 'length' or number of images you can put into the array is
# determined by the first position in the shape tuple, in this case 1
data = np.ndarray(shape=(1, 224, 224, 3), dtype=np.float32)

# Replace this with the path to your image
image = Image.open("test1.jpg").convert("RGB")

# resizing the image to be at least 224x224 and then cropping from the center
size = (224, 224)
image = ImageOps.fit(image, size, Image.Resampling.LANCZOS)

# turn the image into a numpy array
image_array = np.asarray(image)

# Normalize the image
normalized_image_array = (image_array.astype(np.float32) / 127.5) - 1

# Load the image into the array
data[0] = normalized_image_array

# Predicts the model
prediction = model.predict(data)
index = np.argmax(prediction)
class_name = class_names[index]
confidence_score = prediction[0][index]

# Print prediction and confidence score
print("Class:", class_name[2:], end="")
print("Confidence Score:", confidence_score)
```

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1/1 [=====] - 1s 1s/step

Class: Humanoid Robot

Confidence Score: 0.9883116

Disk

67.51 GB available

📄 Variables

📄 Terminal

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