

```
In [2]: import numpy as np
import tensorflow as tf
from skimage.transform import resize
from tensorflow.keras.models import load_model

def loadTestingData():
    data_test = np.load('data_train.npy') # replace with your test data file
    labels_test = np.load('labels_train.npy') # replace with your test labels file

    reshaped_data = data_test.T.reshape((-1, 300, 300, 3))
    resizing_data = np.array([resize(img, (100, 100, 3), anti_aliasing=True) for img in reshaped_data])

    normalizing_data = resizing_data / 255.0

    return normalizing_data, labels_test

# Loading the test data here
test_data, test_labels = loadTestingData()

# Loading the trained model here
model = load_model('my_best_model.h5')

# Evaluate the model
test_loss, test_accuracy = model.evaluate(test_data, test_labels)
print(f"Test Loss: {test_loss}")
print(f"Test Accuracy: {test_accuracy}")
```

2023-12-06 01:46:12.397179: W tensorflow/core/common\_runtime/gpu/gpu\_device.cc:2256] Cannot dlopen some GPU libraries. Please make sure the missing libraries mentioned above are installed properly if you would like to use GPU. Follow the guide at <https://www.tensorflow.org/install/gpu> for how to download and setup the required libraries for your platform.

Skipping registering GPU devices...

264/264 [=====] - 54s 202ms/step - loss: 0.5501 - accuracy: 0.9737

Test Loss: 0.5500788688659668

Test Accuracy: 0.9737060070037842

```
In [3]: predictions_for_images_of_my_model = model.predict(test_data)

# Converting predictions to Label indexes
predicted_labels = np.argmax(predictions, axis=1)

for i in range(len(predicted_labels)):
    print(f"Predicted Label: {predicted_labels[i]}, Actual Label: {test_labels[i]}")
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