

Test the Model

Date	12 november 2022
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Project Name	AI-powered Nutrition Analyzer for FitnessEnthusiasts

Evaluation is a process during the development of the model to check whether the model is the best fit for the given problem and corresponding data.

Load the saved model using load_model

Predicting our results

```
from tensorflow.keras.models import load_model
from keras.preprocessing import image
model = load_model("nutrition.h5") #loading the model for testing
```

Taking an image as input and checking the results

```
img = image.load_img(r"C:\Users\DELL\Desktop\Desk Files\Nutrition Analysis Using Image Classification\
Sample_Images\Test_Image5.jpg",
                    grayscale=False, target_size= (64,64)) #Loading of the image
x = image.img_to_array(img) #image to array
x = np.expand_dims(x, axis = 0) #changing the shape
pred = model.predict_classes(x) #predicting the classes
pred
```

By using the model we are predicting the output for the given input image

```
index=['APPLES', 'BANANA', 'ORANGE', 'PINEAPPLE', 'WATERMELON']  
result=str(index[pred[0]])  
result  
  
'PINEAPPLE'
```

The predicted class index name will be printed here.

