

AI-powered Nutrition Analyzer for Fitness Enthusiasts

Test The Model

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Project Name	AI-Powered nutrition analyser for fitness enthusiast

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.