TEAM ID : PNT2022TMID16369

PROJECT NAME : AI-powered Nutrition Analyzer for Fitness Enthusiasts

Test The Model

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