

Test The Model

Topic: AI-powered Nutrition Analyzer for Fitness Enthusiasts

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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 corresponding data.
- Load the saved model using load_model
- Taking an image as input and checking the results
- By using the model we are predicting the output for the given input image
- The predicted class index name will be printed here.

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Test The Model

[22] from tensorflow.keras.models import load_model
from keras.preprocessing import image
final_model = load_model("nutrition.h5")

[23] from tensorflow.keras.utils import img_to_array

img = tensorflow.keras.utils.load_img("/content/drive/MyDrive/Nutrition Image Analysis using CNN and Rapid API/Nutrition Analysis Using Image Classification/Flask/Sample Images/Test_Images4.jpg", grayscale=False)
x = img_to_array(img)
x = np.expand_dims(x, axis = 0)
pred = np.argmax(final_model.predict(x), axis=-1)
pred

1/1 [=====] - 0s 103ms/step
array([2])

[25] index=['APPLES', 'BAHIANA', 'ORANGE']
result=index[pred[0]]

result

'ORANGE'
```

