AI-Powered Nutrition Analyzer for Fitness Enthusiasts

Model Building

Team ID	PNT2022TMID26332
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

Test The Model

8. Testing The Model

```
[21] #Predict the results
     from tensorflow.keras.models import load_model
     from tensorflow.keras.preprocessing import image
     import numpy as np
```

```
[22] from tensorflow.keras.utils import img_to_array
     #loading of the image
     img = image.load_img("/content/drive/MyDrive/ibm/TEST_SET/ORANGE/38_100.jpg",target_size= (64,64))

     #image to array
     x = img_to_array(img)
     #changing the shape
     x = np.expand_dims(x,axis = 0)
     predict_x=model.predict(x)
     classes_x=np.argmax(predict_x,axis=-1)
     classes_x
```

```
1/1 [==============================] - 7s 7s/step
array([2])
```

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

```
'ORANGE'
```