Model Building

Test The Model

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Project Name	AI-Powered Nutrition Analyzer For Fitness Enthusiasts

Load the saved model using load_model

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

Taking an image as input and checking the results :

```
[ ] img = tensorflow.keras.utils.load_img(r"drive/My Drive/Sample_Images/Test_Image1.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(x) > 0.5).astype("int32")#predicting the classes
    pred = np.argmax(model.predict(x), axis=-1)
    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
```

```
'APPLES'
```