```
test_dir=r'C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation_
System_For_Disease_ Prediction\Dataset Plant Disease\Veg-dataset\Veg-dataset\test_set'

import tensorflow as tf

from tensorflow import keras

from tensorflow.keras.preprocessing.image import ImageDataGenerator

model =
tf.keras.models.load_model(r'C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommen
dation_ System_For_Disease_ Prediction\Dataset Plant Disease\vegetabledata.h5')

test_datagen_1=ImageDataGenerator(rescale=1)

test_generator_1=test_datagen_1.flow_from_directory(

   test_dir,

   target_size=(128,128),

   batch_size=20,

   class_mode='categorical'

)

Found 3416 images belonging to 9 classes.

import numpy as np

from tensorflow.keras.models import load_model

from tensorflow.keras.preprocessing import image

img=image.load_img(r"C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation
_ System_For_Disease_ Prediction\Dataset Plant Disease\Veg-dataset\Veg-
dataset\test_set\Potato__Early_blight\b7157976-61c2-4366-87c5-e3de23aa7c10__RS_Early.B
7227.jpg")

img


img=image.load_img(r"C:\Users\praveen\Desktop\FILES\data_for_ibm\Fertilizers_Recommendation
_ System_For_Disease_ Prediction\Dataset Plant Disease\Veg-dataset\Veg-
dataset\test_set\Potato__Early_blight\b7157976-61c2-4366-87c5-e3de23aa7c10__RS_Early.B
7227.jpg",target_size=(128,128))

x=image.img_to_array(img)

x=np.expand_dims(x,axis=0)

y=np.argmax(model.predict(x),axis=1)

index=['Apple__Black_rot', 'Apple_healthy', 'Corn(maize)__healthy',
'Corn(maize)__Northern_Leaf_Blight', 'Peach_Bacterial_spot', 'Peach__healthy']
```

```
index[y[0]]
```

```
1/1 [==============================] - 0s 172ms/step
```

```
'Peach___healthy'
```

```
model.evaluate(test_generator_1,steps=50)
```

```
50/50 [==============================] - 5s 103ms/step - loss: 2.1039 - accuracy: 0.1890
```

```
[2.103949785232544, 0.1889999955892563]
```