test\_dir**=**r'C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\fruit-dataset\fruit-dataset\test'

In [2]:

**import** tensorflow **as** tf

**from** tensorflow **import** keras

**from** tensorflow.keras.preprocessing.image **import** ImageDataGenerator

In [3]:

model **=** tf**.**keras**.**models**.**load\_model(r'C:\Users\VENGAT\fruitdata.h5')

In [4]:

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 1686 images belonging to 6 classes.

In [5]:

**import** numpy **as** np

**from** tensorflow.keras.models **import** load\_model

**from** tensorflow.keras.preprocessing **import** image

In [6]:

img**=**image**.**load\_img(r"C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\fruit-dataset\fruit-dataset\train\Corn\_(maize)\_\_\_healthy\9faacf6a-f638-435a-8994-f1418b332199\_\_\_R.S\_HL 8102 copy 2.jpg")

In [7]:

img

Out[7]:



In [8]:

img**=**image**.**load\_img(r"C:\Users\VENGAT\Desktop\Data\Dataset Plant Disease\fruit-dataset\fruit-dataset\train\Corn\_(maize)\_\_\_healthy\9faacf6a-f638-435a-8994-f1418b332199\_\_\_R.S\_HL 8102 copy 2.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 [==============================] - 7s 7s/step

Out[8]:

'Corn\_(maize)\_\_\_Northern\_Leaf\_Blight'

In [9]:

model**.**evaluate(test\_generator\_1,steps**=**50)

50/50 [==============================] - 27s 495ms/step - loss: 666.1144 - accuracy: 0.6230

Out[9]:

[666.1144409179688, 0.6230000257492065]

In [ ]: