

## Test the model

Team ID	PNT2022TMID30319
Project Name	Fertilizers Recommendation System For Disease Prediction

### Tested Fruit :

```
In [4]: model = load_model('/content/gdrive/MyDrive/fruitdata.h5')

In [27]: image = cv2.imread('/content/Dataset Plant Disease/fruit-dataset/fruit-dataset/train/Apple__Black_rot/1452dba2-3694-4657-ac64-fed65e056__JR_FrgE.
test_image = cv2.resize(image, (128,128))

test_image = img_to_array(test_image)/255
test_image = np.expand_dims(test_image, axis = 0)

result = model.predict(test_image)

pred = np.argmax(result, axis=1)
print(pred)
if pred==0:
    print( "Apple__Black_rot")

elif pred==1:
    print("Apple__healthy")

elif pred==2:
    print("Corn_(maize)__healthy")

elif pred==3:
    print("Corn_(maize)__Northern_Leaf_Blight")

elif pred==4:
    print("Peach__Bacterial_spot")

elif pred==5:
    print("Peach__healthy")

1/1 [=====] - 0s 37ms/step
[0]
Apple__Black_rot
```

## Tested Vegetable :

```
Upload=files.upload()

for path in Upload.keys():
    input=image.load_img(path,target_size=(128,128))
    x=image.img_to_array(input)
    x=np.expand_dims(x,axis=0)
    y=np.argmax(model.predict(x),axis=1)
    index=['Pepper,_bell___Bacterial_spot','Pepper,_bell___healthy','Potato___Early_blight','Potato___Late_blight','Potato___healthy','Tomato___Bacteria
    index[y[0]]
    print(index[y[0]])
```

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```
Saving 00d8f10f-5038-4e0f-bb58-0b885ddc0cc5___RS_Early.B 8722.JPG to 00d8f10f-5038-4e0f-bb58-0b885ddc0cc5___RS_Early.B 8722.JPG
Saving 0a8a68ee-f587-4dea-beec-79d02e7d3fa4___RS_Early.B 8461.JPG to 0a8a68ee-f587-4dea-beec-79d02e7d3fa4___RS_Early.B 8461.JPG
Saving 0a47f32c-1724-4c8d-bfe4-986cedd3587b___RS_Early.B 8001.JPG to 0a47f32c-1724-4c8d-bfe4-986cedd3587b___RS_Early.B 8001.JPG
Saving 0a0744dc-8486-4fbb-a44b-4d63e6db6197___RS_Early.B 7575.JPG to 0a0744dc-8486-4fbb-a44b-4d63e6db6197___RS_Early.B 7575.JPG
Saving 0a6983a5-895e-4e68-9edb-88adf79211e9___RS_Early.B 9072.JPG to 0a6983a5-895e-4e68-9edb-88adf79211e9___RS_Early.B 9072.JPG
Saving 0a79700b-f834-41f5-ae51-6ceda6f67a48___RS_Early.B 8951.JPG to 0a79700b-f834-41f5-ae51-6ceda6f67a48___RS_Early.B 8951.JPG
Saving 0ad3ba53-f01b-403b-a99d-5991eed85045___RS_Early.B 7600.JPG to 0ad3ba53-f01b-403b-a99d-5991eed85045___RS_Early.B 7600.JPG
Saving 0bbb8bce-2020-416b-8bd6-c160c2db9921___RS_Early.B 8386.JPG to 0bbb8bce-2020-416b-8bd6-c160c2db9921___RS_Early.B 8386.JPG
1/1 [=====] - 0s 423ms/step
Tomato___Septoria_leaf_spot
1/1 [=====] - 0s 31ms/step
Potato___Early_blight
1/1 [=====] - 0s 31ms/step
Pepper,_bell___healthy
1/1 [=====] - 0s 31ms/step
Tomato___Septoria_leaf_spot
1/1 [=====] - 0s 31ms/step
Potato___Early_blight
1/1 [=====] - 0s 29ms/step
Potato___Early_blight
1/1 [=====] - 0s 30ms/step
Tomato___Septoria_leaf_spot
1/1 [=====] - 0s 35ms/step
Potato___Early_blight
```