

Data Collection

The first step is to download the dataset

Creating Train and Test folders with each folder having subfolders with leaf images of different plant diseases.

Two datasets will be used, we will be creating two models one to detect vegetable leaf diseases like tomato, potato, and pepper plants and the second model would be for fruits diseases like corn, peach, and apple.

Download Dataset

Download the Plant Disease dataset.

<https://drive.google.com/file/d/1fxs7ptl6zh7NTbCOZARKZ7AmYKjnprY/view>

FRUIT

FRUIT

```
In [16]: x_train= train_datagen.flow_from_directory('/content/drive/MyDrive/fruit-dataset/fruit-dataset/train',batch_size=32,target_size=(128,128),
                                                color_mode='rgb',class_mode='categorical')
x_test = test_datagen.flow_from_directory('/content/drive/MyDrive/fruit-dataset/fruit-dataset/test',batch_size=32,target_size=(128,128),
                                          color_mode='rgb',class_mode='categorical')
```

Found 5384 images belonging to 6 classes.
Found 1686 images belonging to 6 classes.

VEGETABLE

VEGETABLE

```
In [17]: x_train= train_datagen.flow_from_directory('/content/drive/MyDrive/Veg-dataset/Veg-dataset/train_set',batch_size=32,target_size=(128,128),
                                                color_mode='rgb',class_mode='categorical')
x_test = test_datagen.flow_from_directory('/content/drive/MyDrive/Veg-dataset/Veg-dataset/test_set',batch_size=32,target_size=(128,128),
                                          color_mode='rgb',class_mode='categorical')
```

Found 11430 images belonging to 9 classes.
Found 3416 images belonging to 9 classes.