

Team ID : PNT2022TMID44653

Date : 27 Oct 2022

▼ Sprint - 1

#Extracting Data

```
!unzip "/content/drive/MyDrive/IBM Project /Data Collection.zip"
```

```
inflatng: Dataset/TRAIN_SET/BANANA/UQ8WVE40TKQT.jpg
inflatng: Dataset/TRAIN_SET/BANANA/U9L0M5OSX7UY.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/105_100.jpg
inflatng: Dataset/TRAIN_SET/BANANA/NTMVQC3QY01T.jpg
inflatng: Dataset/TRAIN_SET/BANANA/4CAYT57RPCZR.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/109_100.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_1631.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/102_100.jpg
inflatng: Dataset/TRAIN_SET/BANANA/CFPSZIW4EJWZ.jpg
inflatng: Dataset/TRAIN_SET/BANANA/WWT1X928HGLW.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/107_100.jpg
inflatng: Dataset/TRAIN_SET/BANANA/6KXWP60FUPXC.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/108_100.jpg
inflatng: Dataset/TRAIN_SET/BANANA/UV139XHJ9RWZ.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_2151.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/106_100.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_1790.jpg
inflatng: Dataset/TRAIN_SET/BANANA/SR9CDWUD98US.jpg
inflatng: Dataset/TRAIN_SET/BANANA/Q1R0BH5JJXC6.jpg
inflatng: Dataset/TRAIN_SET/BANANA/RD9Z0R45PFZS.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_2431.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_2510.jpg
inflatng: Dataset/TRAIN_SET/BANANA/JR6B6MP1UU9X.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_1661.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_15010.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_14760.jpg
inflatng: Dataset/TRAIN_SET/BANANA/KY405972A06C.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/100_100.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_2500.jpg

inflatng: Dataset/TRAIN_SET/BANANA/Q79783IE1RHB.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_14860.jpg
inflatng: Dataset/TRAIN_SET/BANANA/WQJ4QGAZ5CLC.jpg
inflatng: Dataset/TRAIN_SET/BANANA/GYWMIFK6GIBR.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/0_100.jpg
inflatng: Dataset/TRAIN_SET/BANANA/M01DUBRZ7GTH.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_14960.jpg
inflatng: Dataset/TRAIN_SET/BANANA/H9Z8JHLM4YLO.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_14750.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_14931.jpg
inflatng: Dataset/TEST_SET/APPLES/n07740461_230.jpg
inflatng: Dataset/TRAIN_SET/BANANA/RN5DSQI6VVTU.jpg
inflatng: Dataset/TRAIN_SET/BANANA/75DL7QKNARYS.jpg
inflatng: Dataset/TRAIN_SET/WATERMELON/104_100.jpg
```

```

inflating: Dataset/TRAIN_SET/WATERMELON/101_100.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_1780.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_1840.jpg
inflating: Dataset/TRAIN_SET/WATERMELON/103_100.jpg
inflating: Dataset/TRAIN_SET/BANANA/XVM157M1U3HC.jpg
inflating: Dataset/TRAIN_SET/BANANA/QHMITLVN0AQX.jpg
inflating: Dataset/TRAIN_SET/BANANA/2V3U7PN2JWFL.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_1990.jpg
inflating: Dataset/TRAIN_SET/BANANA/DSBLPX0J00YY.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_15051.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_14821.jpg
inflating: Dataset/TEST_SET/APPLES/n07740461_2520.jpg
inflating: Dataset/TRAIN_SET/BANANA/GQR1P2WIXOFR.jpg
inflating: Dataset/TRAIN_SET/BANANA/WVR04ILPJYT9.jpg
inflating: Dataset/TRAIN_SET/BANANA/1MP5FUTN7ZPQ.jpg
inflating: Dataset/TRAIN_SET/BANANA/TZOXZQ8FJC2S.jpg
inflating: Dataset/TRAIN_SET/BANANA/700P0E220K7E.jpg

```

Image Augmentation / PreProcessing :

```
#Import req. Lib.
```

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

```
#Augmentation On Training Variable
```

```
train_datagen = ImageDataGenerator(rescale= 1./255,
                                   zoom_range=0.2,
                                   horizontal_flip =True)
```

```
#Augmentation On Testing Variable
```

```
test_datagen = ImageDataGenerator(rescale= 1./255)
```

```
#Augmentation On Training Variable
```

```
ftrain = train_datagen.flow_from_directory('/content/Dataset/TRAIN_SET',
                                           target_size=(64,64),
                                           class_mode='categorical',
                                           batch_size=100)
```

Found 4118 images belonging to 5 classes.

```
#Augmentation On Training Variable
```

```
ftest = test_datagen.flow_from_directory('/content/Dataset/TEST_SET',
                                         target_size=(64,64),
                                         class_mode='categorical',
                                         batch_size=100)
```

Found 929 images belonging to 5 classes.

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✓ 0s completed at 8:46 PM

