

<b>DATE</b>	<b>14th NOVEMBER 2022</b>
<b>TEAM ID</b>	<b>PNT2022TMD18742</b>
<b>PROJECT NAME</b>	<b>PROJECT - DIGITAL NATURALIST - AI ENABLED TOOL FOR BIODIVERSITY RESEARCHERS</b>
<b>MAXIMUM MARKS</b>	<b>8 MARKS</b>

### **Loading Images Into Machine Understandable Data :**

#### **Animal Dataset :**

# Passing training data to train variable for animals

xtrain =

train\_datagen.flow\_from\_directory('/content/datasetbd/train/animals',  
, target\_size=(64,64), class\_mode='categorical',

batch\_size=100)

# Passing testing data to test variable for animals

xtest =

test\_datagen.flow\_from\_directory('/content/datasetbd/test/animals',  
target\_size=(64,64), class\_mode='categorical',

batch\_size=100)

#### **Birds Dataset:**

# Passing training data to train variable for birds

xtrain1 =

train\_datagen.flow\_from\_directory('/content/datasetbd/train/birds',

```
target_size=(64,64), class_mode='categorical', batch_size=100)

xtest1 =
test_datagen.flow_from_directory('/content/datasetbd/test/birds',
class_mode='categorical', batch_size=100)
```

### **Flowers Dataset:**

```
# Passing training data to train variable for flowers
xtrain2 = train_datagen.flow_from_directory('/content/datasetbd/train/flowers',
target_size=(64,64), class_mode='categorical', batch_size=100)

# Passing testing data to test variable for flowers
xtest 2= test_datagen.flow_from_directory('/content/datasetbd/test/flowers',
target_size=(64,64), class_mode='categorical', batch_size=100)
```

### **Marine Animal Dataset:**

```
# Passing training data to train variable for marine animals
xtrain3 = train_datagen.flow_from_directory('/content/datasetbd/train/marine
animals', target_size=(64,64), class_mode='categorical', batch_size=100)

# Passing testing data to test variable for marine animals
xtest3= test_datagen.flow_from_directory('/content/datasetbd/test/marine
animals', target_size=(64,64), class_mode='categorical', batch_size=100)
```

### **Plants Dataset:**

```
# Passing training data to train variable for plants
xtrain4 = train_datagen.flow_from_directory('/content/datasetbd/train/plants',
target_size=(64,64), class_mode='categorical', batch_size=100)

# Passing testing data to test variable for plants
xtest4 = test_datagen.flow_from_directory('/content/datasetbd/test/plants',
target_size=(64,64), class_mode='categorical')
```

