

DATE	12TH NOVEMBER 2022
TEAM ID	PNT2022TMID33205
PROJECT NAME	PROJECT - DIGITAL NATURALIST - AI ENABLED TOOL FOR BIODIVERSITY RESEARCHERS
MAXIMUM MARKS	8 MARKS

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')
```