| DATE | 12TH NOVEMBER 2022 |
|---|---|
| TEAM ID | PNT2022TMID21731 |
| 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'