

Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence

Date : 21-11-2022

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Configure Image Data Generator Class

Image Data Generator

```
#Generator instance (Train)
TRAIN_GENERATOR = DATAGEN.TRAIN.
flow_from_directory(
    train_directory,
    target_size (img_width,img_height) .
    batch_size = batch_size,
    class_mode "categorical",
    subset = "training")

VALID_GENERATOR = DATAGEN
TRAIN.flow_from_directory(
    train_directory,
target_size (img_width, img_height) , batch_size =
    batch_size,
    class_mode="categorical",
    shuffle False.
    subset
        validation")
```

```
# Generator instance (Test)
TEST_GENERATOR = DATAGEN_TEST.flow_from_directory(
    test_directory,
    target_size (img_width, img_height),
    batch_size = batch_size,
    shuffle
        False,
    class_mode='categorical')

> Found 14805 images belonging to 88 classes.
   Found 3665 images belonging to 88 classes. Found
   2154 images belonging to 1 classes.
```

Configure Image Data Generator Class

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configure image data generator class

data_generator.py

● **from keras.preprocessing.image import
ImageDataGenerator**

- from

```
tensorflow.keras.applications.vgg19  
import preprocess_input
```

- train_datagen =

```
ImageDataGenerator(dtype='float32',
```

- preprocessing_function=preprocess_in

.

```
put)
```

```
test_datagen
```

=

```
ImageDataGenerator(dtype='float32',
```

- preprocessing_function=preprocess_in
put)