

Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence

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Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence

Configure Image Data Generator Class

Image Data Generator

```
# Generator의 instance 생성 (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")

# Generator의 instance 생성 (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

- configure image data generator class
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- data_generator.py
- from keras.preprocessing.image import ImageDataGenerator
- from tensorflow.keras.applications.vgg19 import preprocess_input
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- train_datagen = ImageDataGenerator(dtype='float32',
- preprocessing_function=preprocess_input)
- test_datagen = ImageDataGenerator(dtype='float32',
- preprocessing_function=preprocess_input)
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