SPRINT 1

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Project Name : Natural Disaster Intensity Analysis and Classification Using Artificial Intelligence

Import Image Data Generator from keras

```
from keras.preprocessing.image import ImageDataGenerator
```

Image Data Augmentation

```python
#setting parameter for Image Data augmentation to the training data
train_datagen =
ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,
horizontal_flip=True)

#Image Data augmentation to the testing data
test_datagen=ImageDataGenerator(rescale=1./255)
```

Loading our data and performing data augmentation

```python
x_train = train_datagen.flow_from_diectory ('../data/train_set',
target_size=(64,64),batch_size=5,color_mode='rgh',class_mode='categorical')
x_test = test_datagen.flow_from_diectory ('../data/test_set',
target_size=(64,64),batch_size=5,color_mode='rgh',class_ode='categorical')
```

Found 742 images belonging to 4 classes.

Found 198 images belonging to 4 classes.