Project Development Phase
Sprint - I

Date	21-11-2022
Team ID	PNT2022TMID38465
Project Name	**Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence**
Maximum Marks	**4 Marks**

Image preprocessing:

```
[3]  from tensorflow.keras.models import Sequential
     from tensorflow.keras.layers import Convolution2D,MaxPooling2D,Flatten,Dense
     from tensorflow.keras.preprocessing.image import ImageDataGenerator as idm
     import numpy as np
     import warnings
     #Supressing warnings
     warnings.filterwarnings('ignore')
```

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

```
[5]  train_datagen=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2,horizontal_flip=True)
```

```
[6]  Xtrain = train_datagen.flow_from_directory('/content/drive/MyDrive/dataset/train_set',target_size=(76,76),class_mode='categorical',batch_size=100)
```

Found 757 images belonging to 4 classes.

```
[7]  test_datagen=ImageDataGenerator(rescale=1./255)
```

```
[8]  Xtest = test_datagen.flow_from_directory('/content/drive/MyDrive/dataset/test_set',target_size=(76,76),class_mode='categorical',batch_size=100)
```

Found 198 images belonging to 4 classes.