

## Project Development Phase

### Sprint - I

Date	19 November 2022
Team ID	PNT2022TMID46034
Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence
Maximum Marks	4 Marks

IBM Cloud:



## 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.