Project Development Phase Sprint - I

Date	8 November 2022
Team ID	PNT2022TMID45682
Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence
Maximum Marks	4 Marks

IBM Cloud:

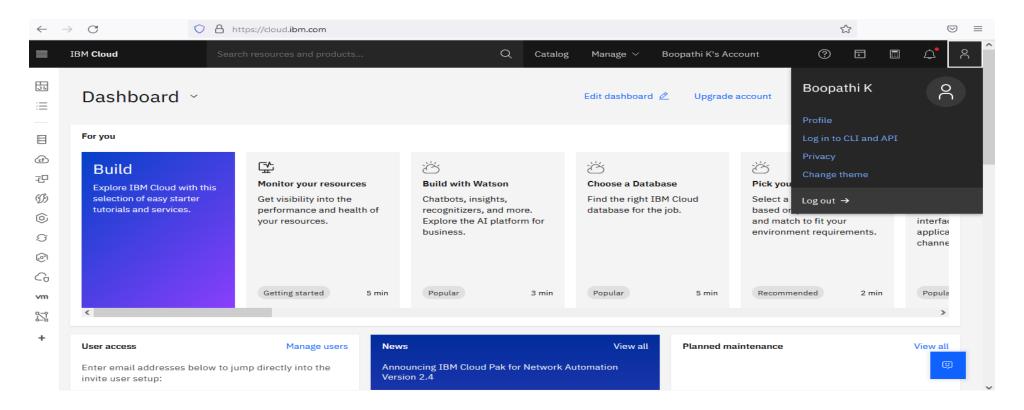


Image preprocessing:

Found 198 images belonging to 4 classes.

```
[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)
```