

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:

The screenshot displays the IBM Cloud dashboard. At the top, a navigation bar includes the IBM Cloud logo, a search bar, and links for Catalog, Manage, and the user's account (Boopathi K's Account). A user profile dropdown menu is open, showing options like Profile, Log in to CLI and API, Privacy, Change theme, and Log out. The main content area is titled 'Dashboard' and features a 'For you' section with several cards: 'Build' (a large blue card), 'Monitor your resources' (with a 'Getting started' button and 5 min duration), 'Build with Watson' (with a 'Popular' button and 3 min duration), 'Choose a Database' (with a 'Popular' button and 5 min duration), and 'Pick your environment' (with a 'Recommended' button and 2 min duration). Below this, there are sections for 'User access' (with a 'Manage users' link), 'News' (highlighting 'Announcing IBM Cloud Pak for Network Automation Version 2.4' with a 'View all' link), and 'Planned maintenance' (with a 'View all' link and a chat icon).

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.
```