

Project Development Phase Sprint - I

Date	10 th November 2022
Team ID	PNT2022TMID45711
Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence
Maximum Marks	4 Marks

IBM Cloud:

The screenshot displays the IBM Cloud dashboard interface. At the top, the browser address bar shows 'https://cloud.ibm.com'. The dashboard header includes the 'IBM Cloud' logo, a search bar, and navigation links for 'Catalog', 'Manage', and the user account 'jeeva MP's Account'. A user menu is open on the right, 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 service tiles: 'Build' (purple), 'Set up your IBM Cloud account' (10 min), 'Get Started with Watson Studio' (2 hr), 'Build a web app with Watson Speech to Text' (15 min), and 'Build a V Cloud (V' (7 min). Below these tiles, there are sections for 'User access' (Manage users), 'News' (View all), and 'Planned maintenance' (View all). The Windows taskbar at the bottom shows the time as 09:24 AM on 11-11-2022.

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.
```