

Project Development Phase Sprint - I

Date	12 November 2022
Team ID	PNT2022TMID46219
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, there's a navigation bar with the IBM Cloud logo, a search bar, and links for 'Catalog', 'Manage', and 'Yogesh M's Account'. The main content area is titled 'Dashboard' and features a 'For you' section with several service tiles. These include 'Build' (Explore IBM Cloud with this selection of easy starter tutorials and services.), 'Build a web app with Watson Speech to Text' (Deploy a conversational interface compatible with any application, device, or channel.), 'Get Started with Watson Studio' (Get started with using AI and Cloud Object Storage in 15 minutes.), 'Build a virtual machine' (Lift and shift your VMware workloads to the IBM Cloud.), and 'Build an app' (Go from in minutes with your Node.js applications, integrate with Watson and other services, scale your microservices.). Each tile has a 'Getting started' button and a duration (e.g., 15 min, 2 hr, 7 min, 15 min). On the right side, there's a user profile dropdown for 'Yogesh M' with options for 'Profile', 'Log in to CLI and API', 'Privacy', 'Change theme', and 'Log out'. At the bottom, there are sections for 'User access' (Manage users), 'News' (WebSphere Application Server Support Restatement, IBM Adds Lifecycle Services to Enterprise Networking and Deepens Strategic Partnership with Cisco), and 'Planned maintenance' (View all). An 'Activate Windows' watermark is visible in the bottom right corner.

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.