

## Project Development Phase Sprint - I

Date	12 November 2022
Team ID	PNT2022TMID41507
Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence
Maximum Marks	4 Marks

### IBM Cloud:

The screenshot displays the IBM Cloud dashboard for user Yogesh M. The interface includes a top navigation bar with the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user's account. The main content area is titled "Dashboard" and features a "For you" section with several recommended services:

- 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. (Getting started, 15 min)
- Get Started with Watson Studio**: Get started with using AI and Cloud Object Storage in 15 minutes. (Popular, 2 hr)
- Build a virtual machine**: Lift and shift your VMware workloads to the IBM Cloud. (Getting started, 7 min)
- Build an app**: Go from in minutes with your Node.js applications, integrate with Watson and other services, scale your microservices. (Recommended, 15 min)

Below the "For you" section, there are three main areas:

- User access**: Manage users. Enter email addresses below to jump directly into the invite user setup.
- News**: View all. Includes articles like "WebSphere Application Server Support Restatement" and "IBM Adds Lifecycle Services to Enterprise Networking and Deepens Strategic Partnership with Cisco".
- Planned maintenance**: View all. Includes a notice about "Activate Windows" and a link to "Go to Settings to activate Windows".

A user profile dropdown menu is visible on the right side of the dashboard, showing the user's name "Yogesh M" and options for Profile, Log in to CLI and API, Privacy, Change theme, and Log out.

## 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.
```