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:

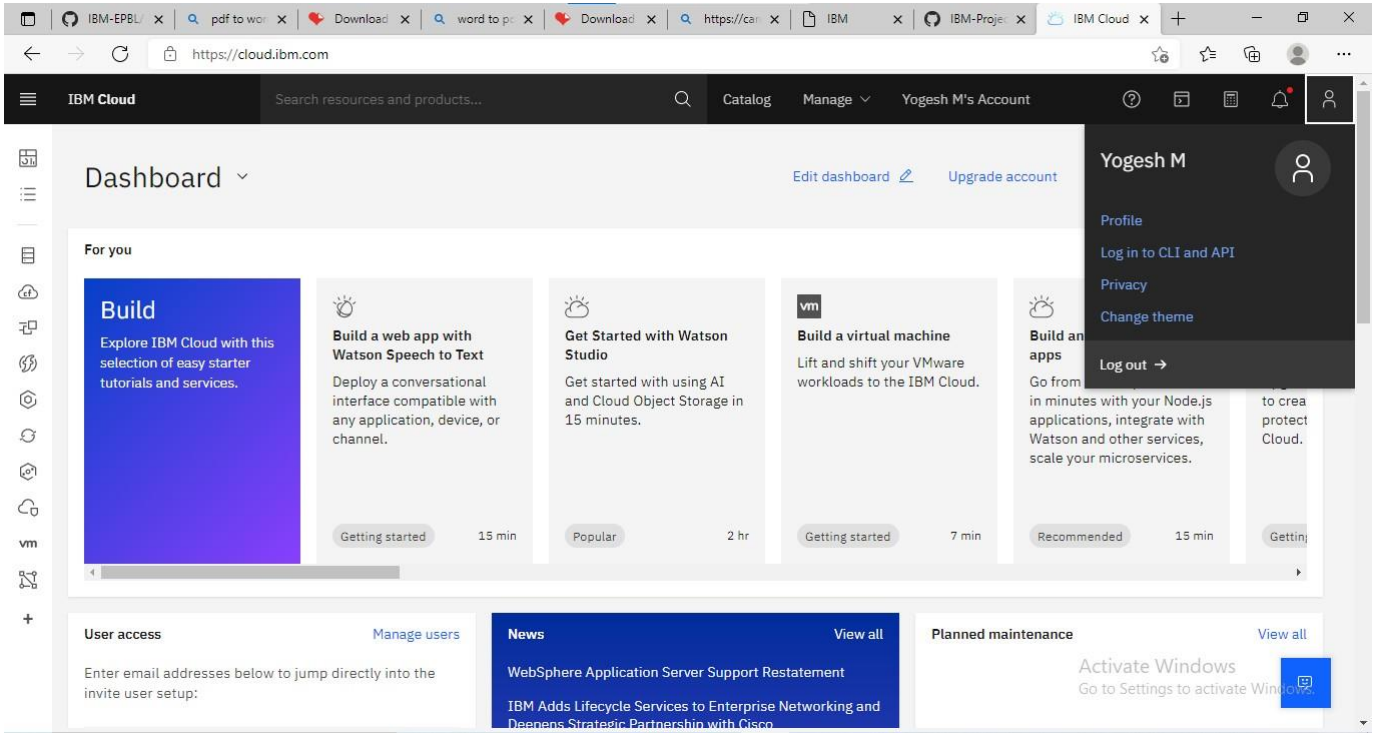

Image preprocessing:

```
[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.
```