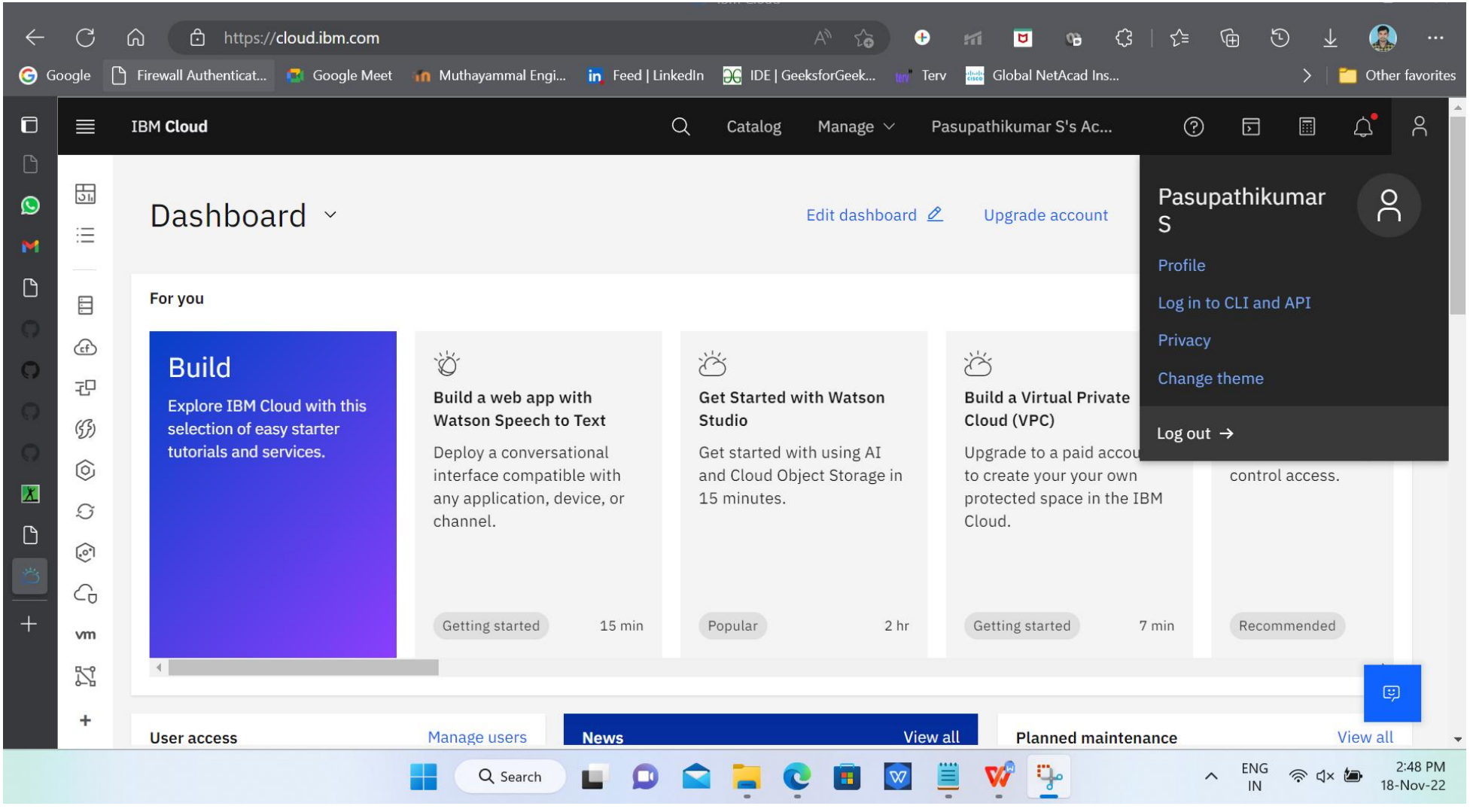
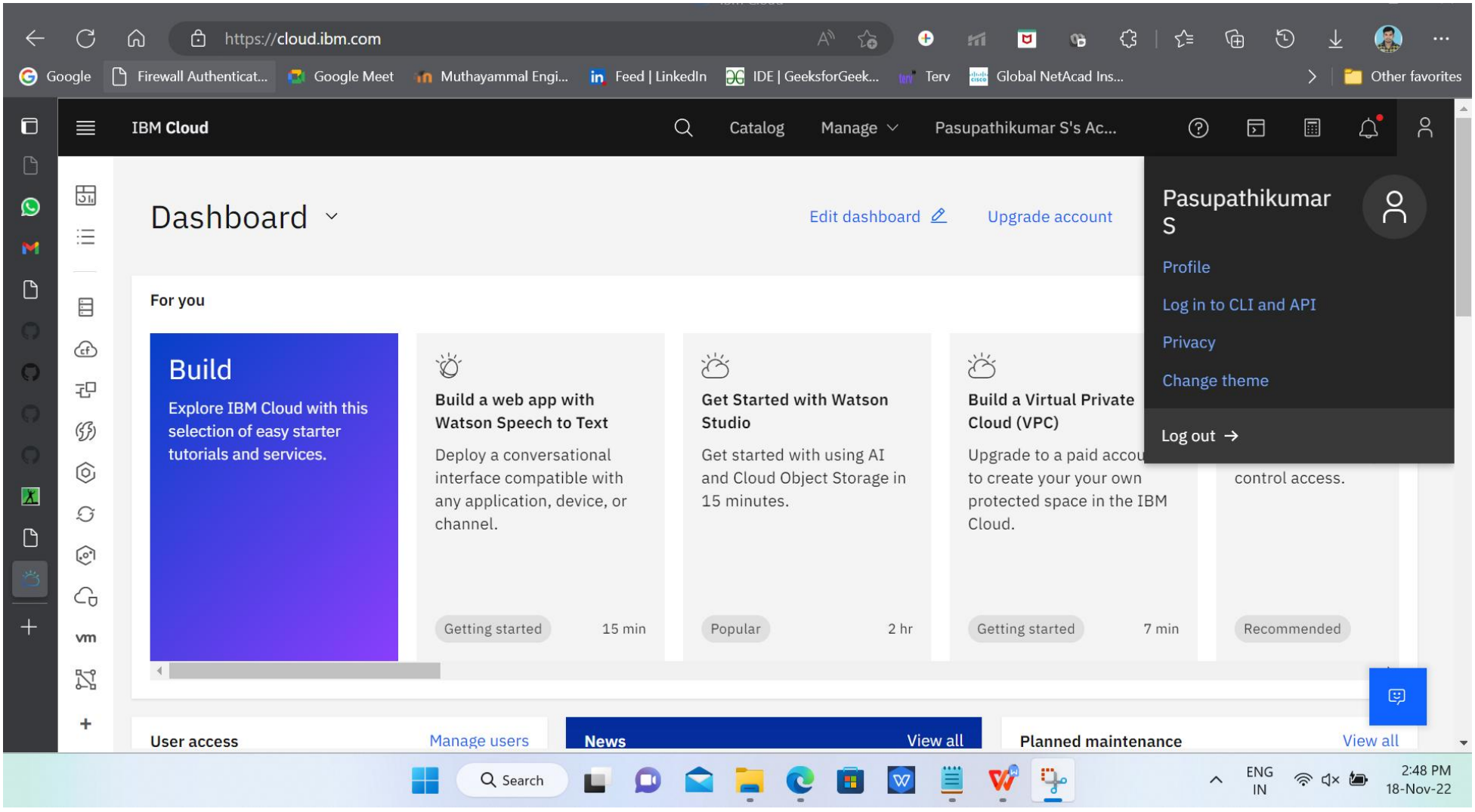
Project Development Phase
Sprint - I

Date	12 November 2022
Team ID	PNT2022TMID19351
Project Name	Natural Disasters Intensity Analysis And Classification Using Artificial Intelligence
Maximum Marks	4 Marks

IBM Cloud:




https://cloud.ibm.com
Google
Firewall Authenticat...
Google Meet
Muthayammal Engi...
Feed | LinkedIn
IDE | GeeksforGeek...
Terv
Global NetAcad Ins...
Other favorites
IBM Cloud
Catalog
Manage
Pasupathikumar S's Ac...
Dashboard
Edit dashboard
Upgrade account
Pasupathikumar S
Profile
Log in to CLI and API
Privacy
Change theme
Log out
For you
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 Private Cloud (VPC)
Upgrade to a paid accou
to create your your own protected space in the IBM Cloud.
Getting started
7 min
control access.
Recommended
User access
Manage users
News
View all
Planned maintenance
View all
Search
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2:48 PM
18-Nov-22

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.
```