PROJECT DEVELOPMENT PHASE

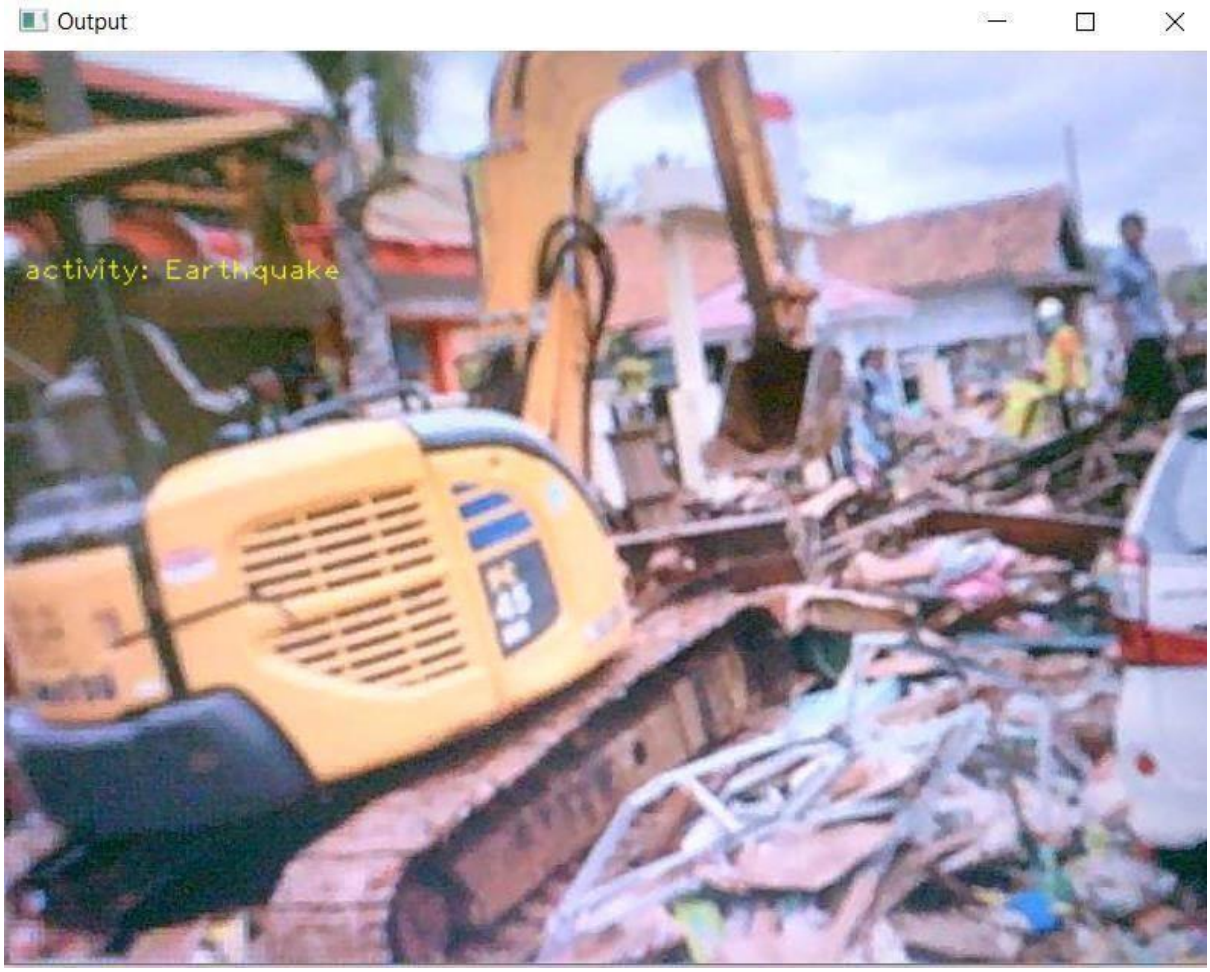
SPRINT-4

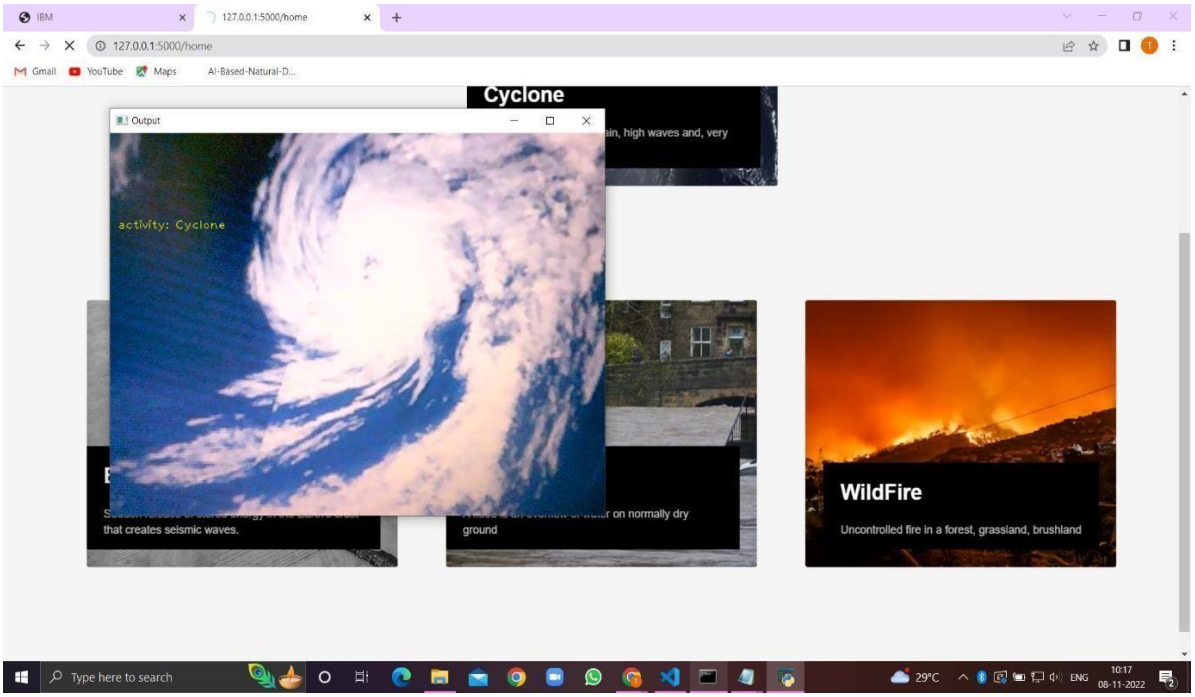
Date	19 November 2022
Team ID	PNT2022TMID36292
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence

INTEGRATE THE WEB APP WITH AI MODEL:

After creating the Model, the Model should be integrated with the web app using the Flask application. The coding part is named as app.py and it will be running in the localhost through the generated link. By navigating the localhost the webpage will be visible.

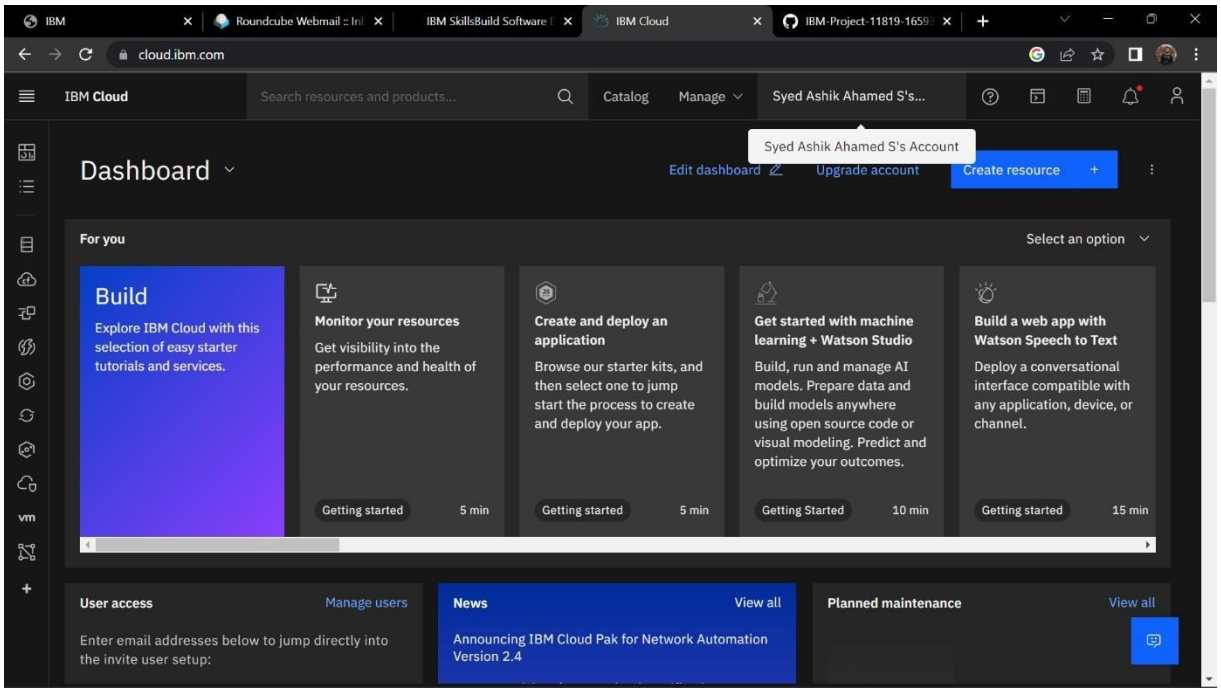
```
            output = frame.copy()
            #print("apple")
            frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
            frame = cv2.resize(frame, (64, 64))
            #frame = frame.astype("float32")
            x=np.expand_dims(frame, axis=0)
            result = np.argmax(model.predict(x), axis=-1)
            index=['Cyclone','Earthquake','Flood','Wildfire']
            result=str(index[result[0]])
            #print(result)
            #result=result.tolist()

            cv2.putText(output, "activity: {}".format(result), (10, 120), cv2.FONT_HERSHEY_PLAIN,
                        1, (0,255,255), 1)
            #playaudio("Emergency it is a disaster")
            cv2.imshow("Output", output)
            key = cv2.waitKey(1) & 0xFF

        # if the `q` key was pressed, break from the loop
            if key == ord("q"):
                break

        # release the file pointers
        print("[INFO] cleaning up...")
        vs.release()
        cv2.destroyAllWindows()
        return render_template("upload.html")


if __name__ == '__main__':
      app.run(debug=False,threaded=True)
```

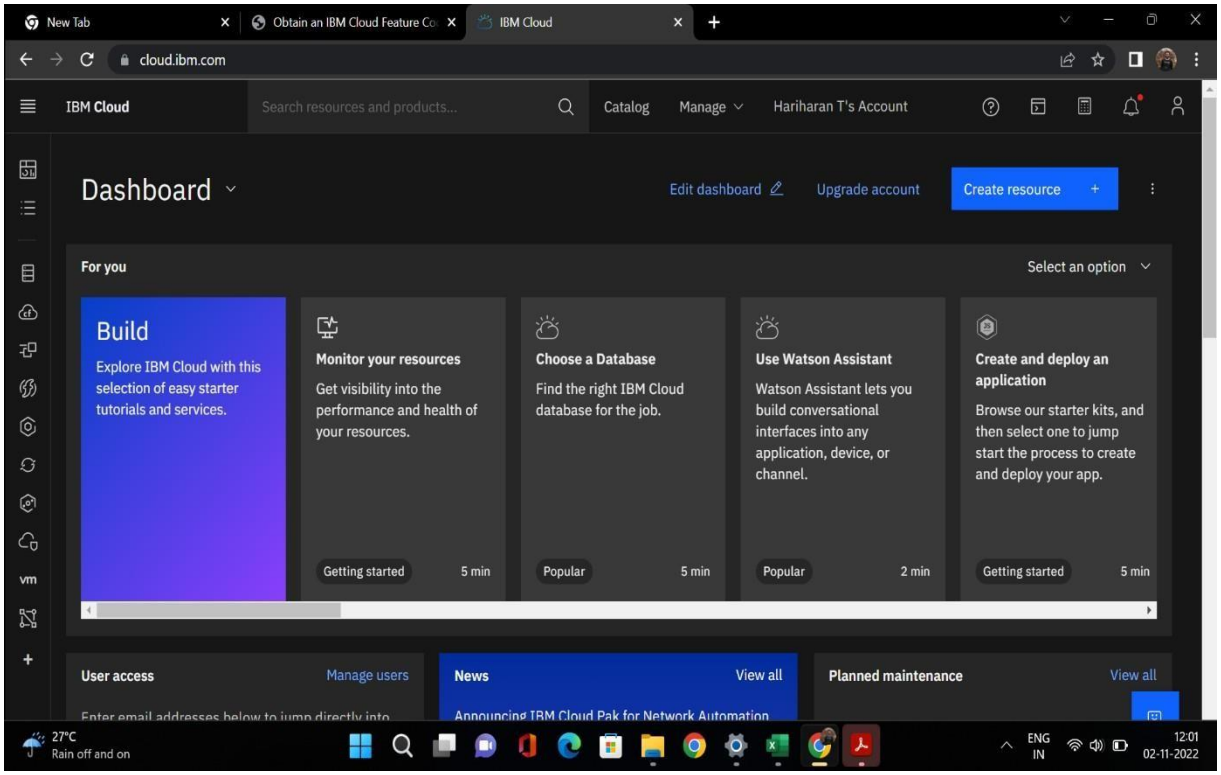

Output
activity: Earthquake

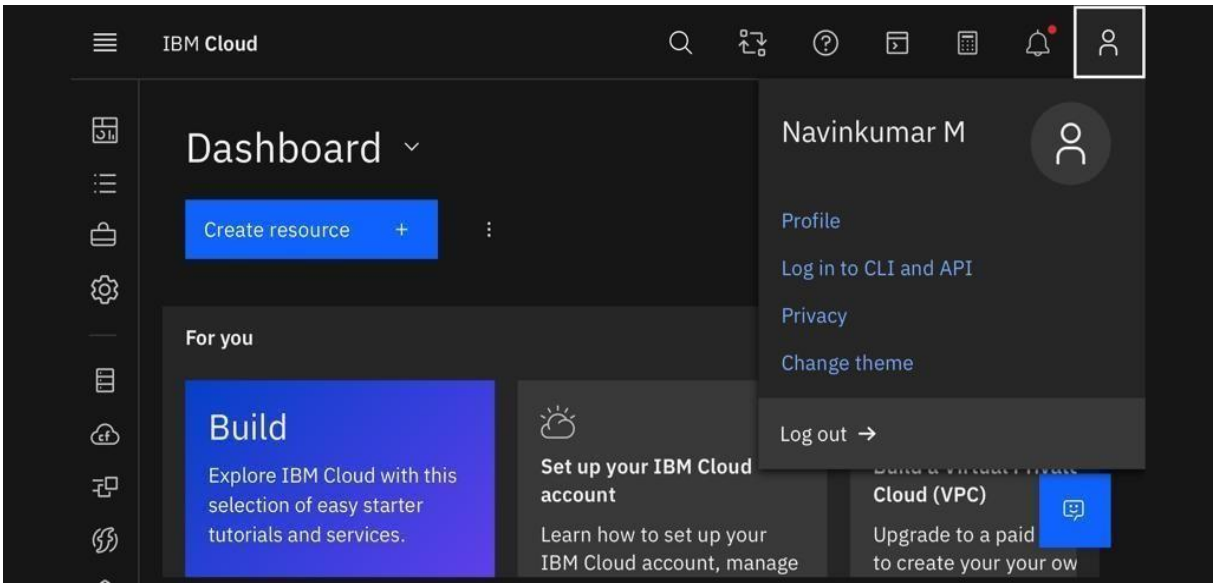

IBM
127.0.0.1:5000/home
127.0.0.1:5000/home
Gmail
YouTube
Maps
AI-Based-Natural-D...
Cyclone
Output
activity: Cyclone
that creates seismic waves.
ground
WildFire
Uncontrolled fire in a forest, grassland, brushland
Type here to search
29°C
ENG
10:17
08-11-2022

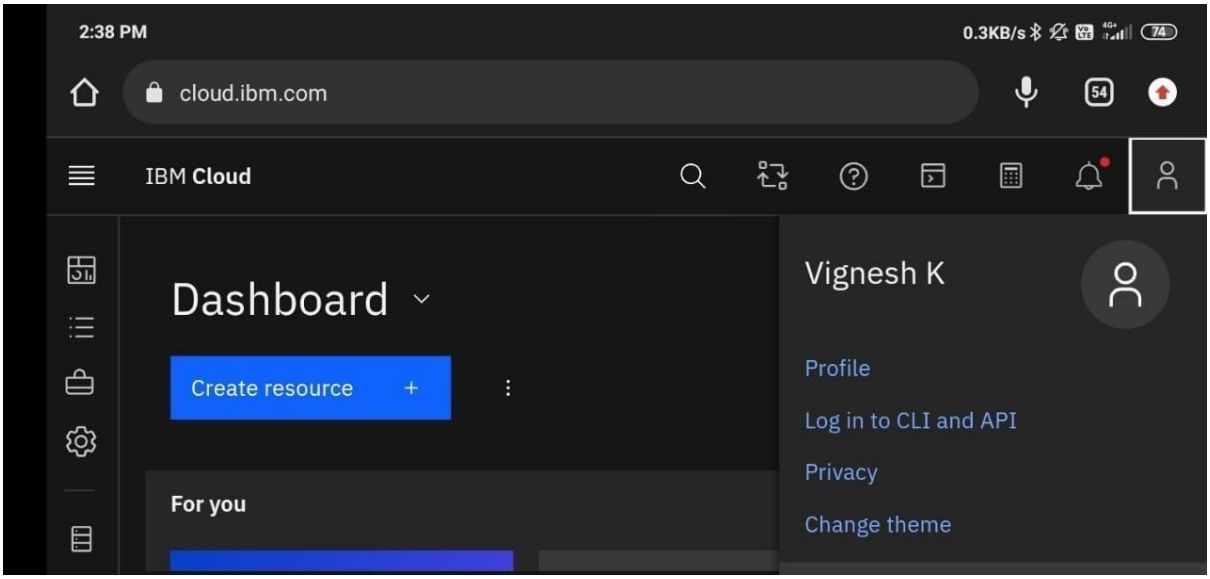
REGISTER FOR IBM CLOUD:

Registering IBM Cloud for deploying the model through the Flask application. The IBM Cloud account is created for all the team members.


IBM
Roundcube Webmail :: Inl
IBM SkillsBuild Software
IBM Cloud
IBM-Project-11819-1659
cloud.ibm.com
IBM Cloud
Search resources and products...
Catalog
Manage
Syed Ashik Ahamed S's...
Syed Ashik Ahamed S's Account
Dashboard
Edit dashboard
Upgrade account
Create resource
For you
Select an option
Build
Explore IBM Cloud with this selection of easy starter tutorials and services.
Monitor your resources
Get visibility into the performance and health of your resources.
Getting started
5 min
Create and deploy an application
Browse our starter kits, and then select one to jump start the process to create and deploy your app.
Getting started
5 min
Get started with machine learning + Watson Studio
Build, run and manage AI models. Prepare data and build models anywhere using open source code or visual modeling. Predict and optimize your outcomes.
Getting Started
10 min
Build a web app with Watson Speech to Text
Deploy a conversational interface compatible with any application, device, or channel.
Getting started
15 min
User access
Manage users
Enter email addresses below to jump directly into the invite user setup:
News
View all
Announcing IBM Cloud Pak for Network Automation Version 2.4
Planned maintenance
View all


New Tab
Obtain an IBM Cloud Feature Co
IBM Cloud
cloud.ibm.com
IBM Cloud
Search resources and products...
Catalog
Manage
Hariharan T's Account
Dashboard
Edit dashboard
Upgrade account
Create resource
For you
Select an option
Build
Explore IBM Cloud with this selection of easy starter tutorials and services.
Monitor your resources
Get visibility into the performance and health of your resources.
Getting started
5 min
Choose a Database
Find the right IBM Cloud database for the job.
Popular
5 min
Use Watson Assistant
Watson Assistant lets you build conversational interfaces into any application, device, or channel.
Popular
2 min
Create and deploy an application
Browse our starter kits, and then select one to jump start the process to create and deploy your app.
Getting started
5 min
User access
Manage users
News
View all
Planned maintenance
View all
27°C
Rain off and on
ENG
IN
12:01
02-11-2022


IBM Cloud
Dashboard
Create resource +
For you
Build
Explore IBM Cloud with this selection of easy starter tutorials and services.
Set up your IBM Cloud account
Learn how to set up your IBM Cloud account, manage
Cloud (VPC)
Upgrade to a paid
to create your your ow
Navinkumar M
Profile
Log in to CLI and API
Privacy
Change theme
Log out


2:38 PM
0.3KB/s
cloud.ibm.com
IBM Cloud
Dashboard
Create resource +
For you
Vignesh K
Profile
Log in to CLI and API
Privacy
Change theme