PROJECT DEVELOPMENT PHASE

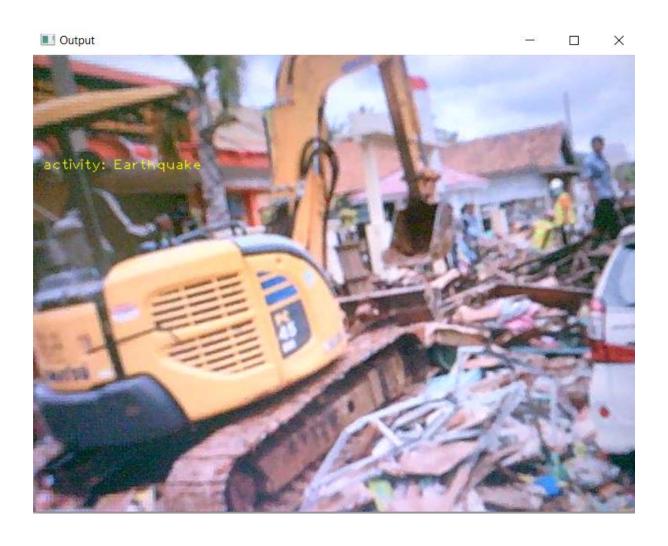
SPRINT-4

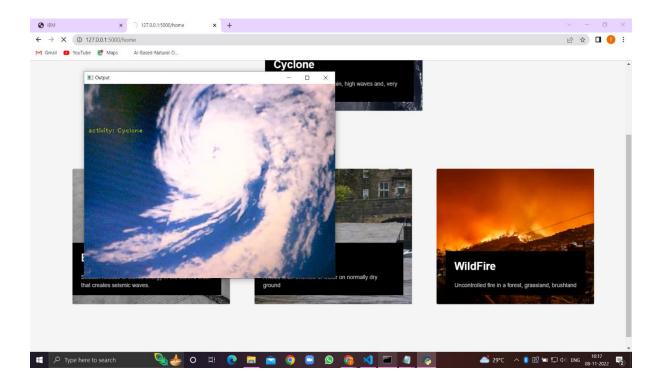
Date	07 November 2022
Team ID	PNT2022TMID40422
Project Name	Natural Disaster Intensity Analysis and Classification using
	Artificial Intelligence

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.

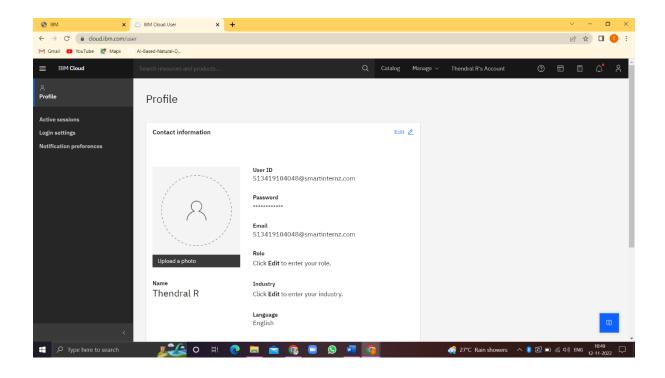
```
output = frame.copy()
73
74
                #print("apple")
75
                frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
                frame = cv2.resize(frame, (64, 64))
77
                #frame = frame.astype("float32")
78
                x=np.expand_dims(frame, axis=0)
                result = np.argmax(model.predict(x), axis=-1)
79
                index=['Cyclone','Earthquake','Flood','Wildfire']
30
31
                result=str(index[result[0]])
                #print(result)
32
83
                #result=result.tolist()
                cv2.putText(output, "activity: {}".format(result), (10, 120), cv2.FONT_HERSHEY_PLAIN,
35
36
                             1, (0,255,255), 1)
                #playaudio("Emergency it is a disaster")
cv2.imshow("Output", output)
37
38
39
                key = cv2.waitKey(1) & 0xFF
90
                   →# if the `q` key was pressed, break from the loop
91
                if key == ord("q"):
92
                    break
93
           # release the file pointers
95
            print("[INFO] cleaning up...")
96
97
            vs.release()
           cv2.destroyAllWindows()
98
99
           return render_template("upload.html")
90
21
32 if name == ' main ':
         app.run(debug=False,threaded=True)
93
34
```

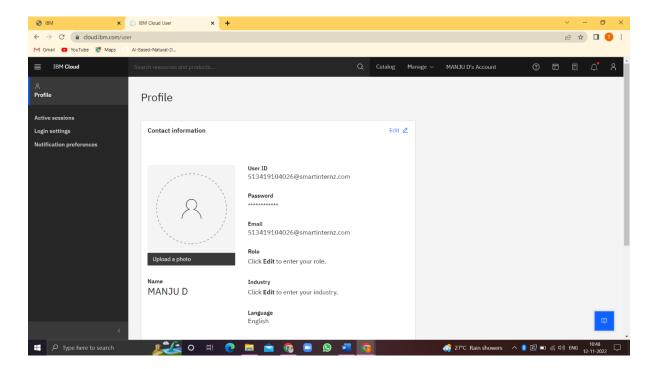


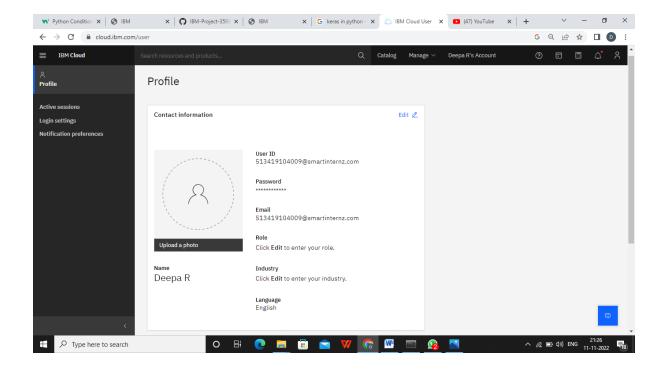


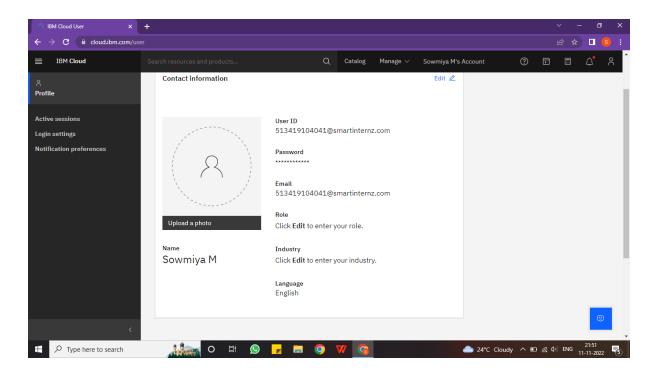
REGISTER FOR IBM CLOUD:

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









MODEL DEPLOYMENT:

The trained model which is running in the localhost without any error is deployed in the IBM Cloud for making available for the users to predict the Disaster's type and its intensity. It is integrated with the Flask application.

