PROJECT DEVELOPMENT PHASE SPRINT - IV

Date	10 TH - NOV-2022
Team ID	PNT2022TMID3949
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence

INTEGRATE THE WEB APP WITH AI MODEL:

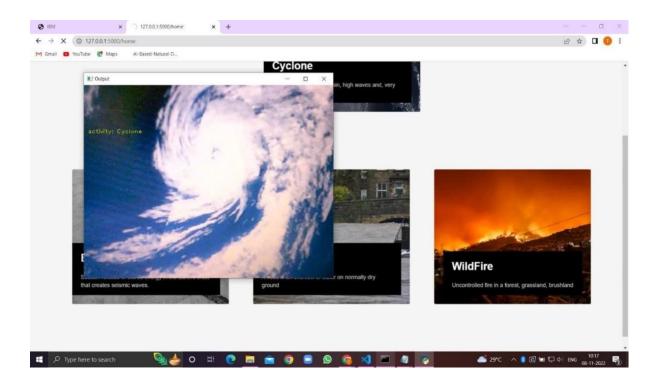
After creating the Model, the Model should be integrated with the web app using the Flask application. The coding part is named as app.py and it will be running in the localhost through the generated link. By navigating the localhost the webpage will be visible.

```
output = frame.copy()
73
74
               #print("apple")
               frame = cv2.cvtColor(frame, cv2.COLOR BGR2RGB)
75
               frame = cv2.resize(frame, (64, 64))
76
               #frame = frame.astype("float32")
77
               x=np.expand dims(frame, axis=0)
78
               result = np.argmax(model.predict(x), axis=-1)
79
               index=['Cyclone', 'Earthquake', 'Flood', 'Wildfire']
30
               result=str(index[result[0]])
31
               #print(result)
32
               #result=result.tolist()
33
34
               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")
37
               cv2.imshow("Output", output)
38
               key = cv2.waitKey(1) & 0xFF
39
90
              ## if the `q` key was pressed, break from the loop
91
92
               if key == ord("q"):
                    break
33
94
95
           # release the file pointers
           print("[INFO] cleaning up...")
96
97
           vs.release()
           cv2.destroyAllWindows()
98
99
           return render template("upload.html")
30
31
32
   if name == ' main ':
         app.run(debug=False,threaded=True)
33
34
```



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.



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