

PROJECT DEVELOPMENT PHASE SPRINT - IV

INTEGRATE THE WEB APP WITH AI MODEL:

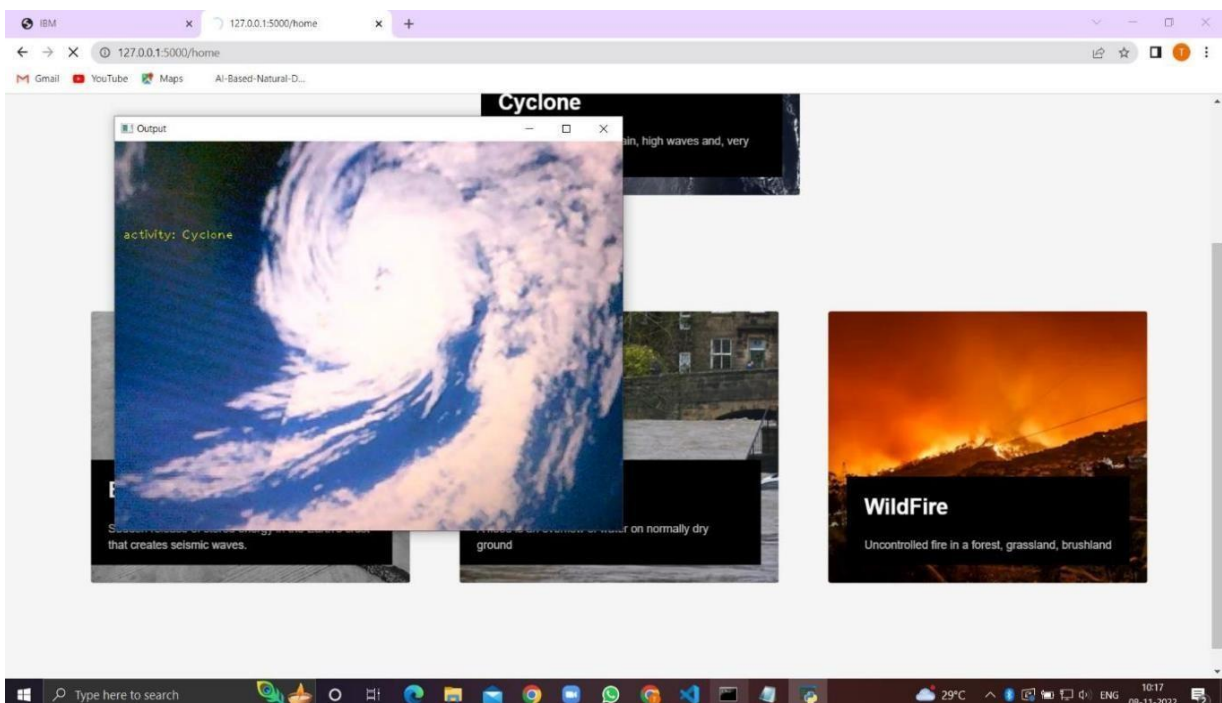
After creating the Model, the Model should be integrated with the web app using the Flask application. The coding part is named as app.py and it will be running in the localhost through the generated link. By navigating the localhost the webpage will be visible.

```
73     output = frame.copy()
74     #print("apple")
75     frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
76     frame = cv2.resize(frame, (64, 64))
77     #frame = frame.astype("float32")
78     x=np.expand_dims(frame, axis=0)
79     result = np.argmax(model.predict(x), axis=-1)
80     index=['Cyclone', 'Earthquake', 'Flood', 'Wildfire']
81     result=str(index[result[0]])
82     #print(result)
83     #result=result.tolist()
84
85     cv2.putText(output, "activity: {}".format(result), (10, 120), cv2.FONT_HERSHEY_PLAIN,
86                 1, (0,255,255), 1)
87     #playaudio("Emergency it is a disaster")
88     cv2.imshow("Output", output)
89     key = cv2.waitKey(1) & 0xFF
90
91     # if the `q` key was pressed, break from the loop
92     if key == ord("q"):
93         break
94
95     # release the file pointers
96     print("[INFO] cleaning up...")
97     vs.release()
98     cv2.destroyAllWindows()
99     return render_template("upload.html")
100
101 if __name__ == '__main__':
102     app.run(debug=False, threaded=True)
```



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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