

PROJECT DEVELOPMENT PHASE

SPRINT-4

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)
```

Output



IBM 127.0.0.1:5000/home

127.0.0.1:5000/home

Gmail YouTube Maps AI-Based-Natural-D...

Cyclone

activity: Cyclone

...in, high waves and, very

...that creates seismic waves.

...ground

WildFire

Uncontrolled fire in a forest, grassland, brushland

Type here to search

29°C 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 Cloud Dashboard for Syed Ashik Ahamed S's Account. The dashboard features a sidebar with navigation icons and a main content area with a 'For you' section. The 'For you' section includes five cards: 'Build' (5 min), 'Monitor your resources' (5 min), 'Create and deploy an application' (5 min), 'Get started with machine learning + Watson Studio' (10 min), and 'Build a web app with Watson Speech to Text' (15 min). Below the 'For you' section, there are four tabs: 'User access', 'News' (highlighted), 'Planned maintenance', and 'View all'. The 'News' tab shows an announcement for IBM Cloud Pak for Network Automation Version 2.4.

IBM Cloud Dashboard for Hariharan T's Account. The dashboard features a sidebar with navigation icons and a main content area with a 'For you' section. The 'For you' section includes five cards: 'Build' (5 min), 'Monitor your resources' (5 min), 'Choose a Database' (5 min), 'Use Watson Assistant' (2 min), and 'Create and deploy an application' (5 min). Below the 'For you' section, there are four tabs: 'User access', 'News' (highlighted), 'Planned maintenance', and 'View all'. The 'News' tab shows an announcement for IBM Cloud Pak for Network Automation. The Windows taskbar at the bottom shows the date as 02-11-2022 and the time as 12:01.

