PROJECT DEVELOPMENT

SPRINT4

|	
Date	17th November 2022
Team ID	PNT2022TMID38828
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.

```python
73  output frame.copy()
74  #print("apple")
75  frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB) 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']
80  result=str(index[result[a]])
81  #print(result)
82  #result-result.toList()
83
84  cv2.putText(output, "activity: []".format(result), (10, 120), cv2.FONT HERSHEY PLAIN,
85          1, (0,255,255), 1)
86  #playaudio("Emergency it is a disaster")
87  cv2.imshow("Output", output)
88  key= cv2.waitKey(1) & 0xFF
89
90      # if the q key was pressed, break from the Loop
91  if key == ord("q"):
92      break
93
94  #release the file pointers
95  print("[INFO] cleaning up...")
96  vs.release()
97  cv2.destroyAllwindows()
98  return render_template("upload.html")
99  if __name__=='__main__':
100     app.run(debug=False, threaded=True)
101
```
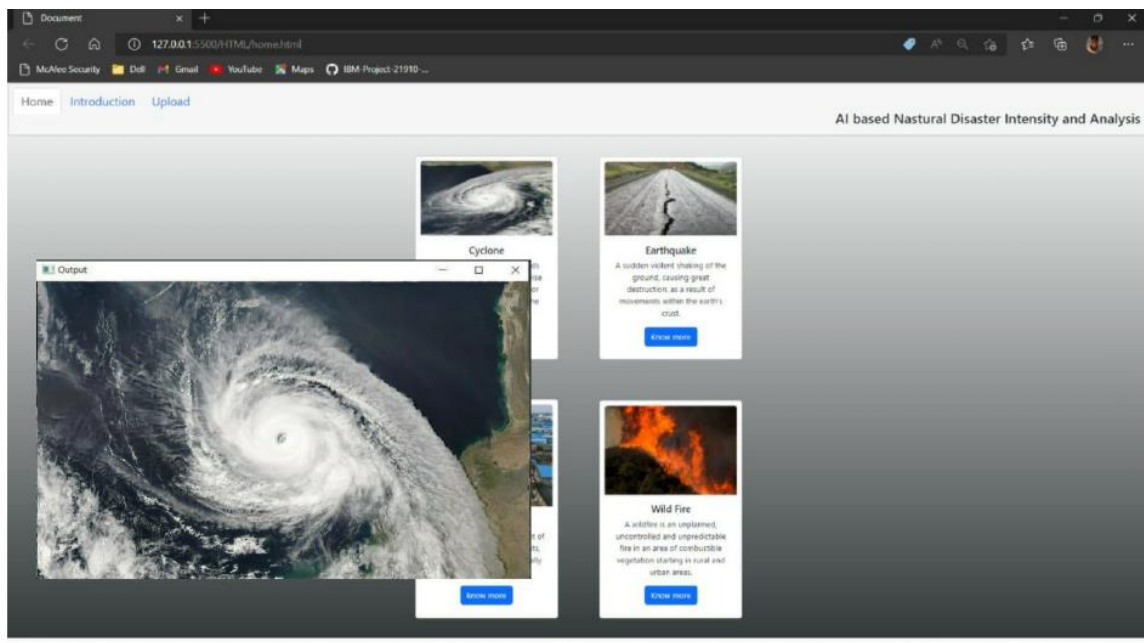
REGISTER FOR IBM CLOUD:
Registering IBM Cloud for deploying the model through the Flask application. The IBM Cloud account is created for all the team members

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