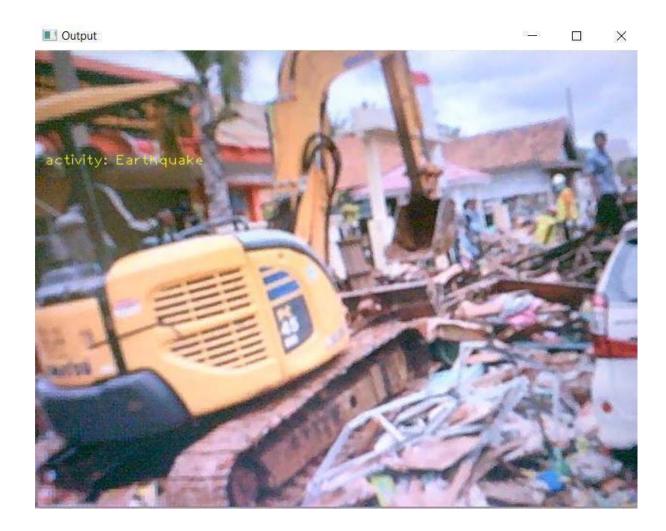| Team ID	PNT2022TMID44028
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence

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)
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")
00
01
02 if __name__ == '__main__':
03     app.run(debug=False,threaded=True)
04
```

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.