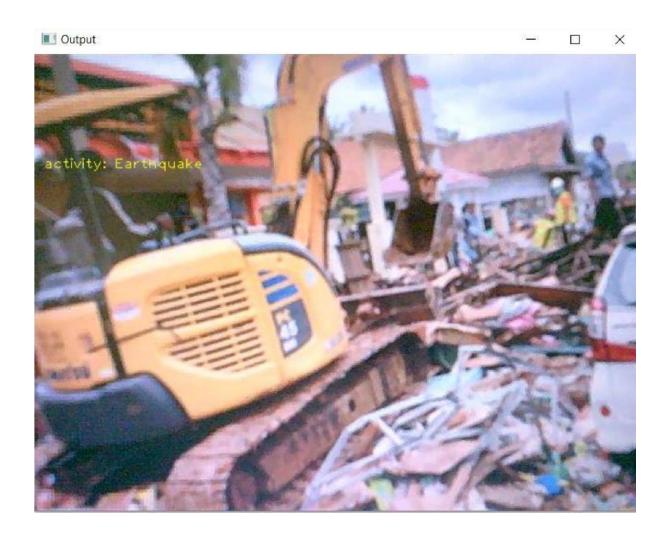
## PROJECT DEVELOPMENT PHASE SPRINT-4

Date	16 November 2022
Team ID	PNT2022TMID25540
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()
        #print("apple")
        frame = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
        frame = cv2.resize(frame, (64, 64))
        #frame = frame.astype("float32")
        x=np.expand_dims(frame, axis=0)
        result = np.argmax(model.predict(x), axis=-1)
index=['Cyclone','Earthquake','Flood','Wildfire']
result=str(index[result[0]])
        #print(result)
        #result=result.tolist()
        cv2.putText(output, "activity: {}".format(result), (10, 120), cv2.FONT_HERSHEY_PLAIN
                      1, (0,255,255), 1)
        #playaudio("Emergency it is a disaster")
        cv2.imshow("Output", output)
key = cv2.waitKey(1) & 0xff
       ## if the 'q' key was pressed, break from the loop
if key == ord("q"):
             break
    # release the file pointers
    print("[INFO] cleaning up...")
    vs.release()
    cv2.destroyAllWindows()
    return render template("upload.html")
name == ' main ':
 app.run(debug=False,threaded=True)
```



## **MODEL DEPLOYMENT:**

The trained model which is running in the local host 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.

