PROJECT DEVELOPMENT

PHASESPRINT-3

Date	18 November 2022
Team ID	PNT2022TMID40422
Project Name	Natural Disaster Intensity Analysis and Classification using Artificial Intelligence
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INTEGRATE THE WEB APP WITH AI MODEL:

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

```python
            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")


if __name__ == '__main__':
    app.run(debug=False,threaded=True)
```