Smoke Detection using IOT Dataset

Technical Documentation

Submitted By:

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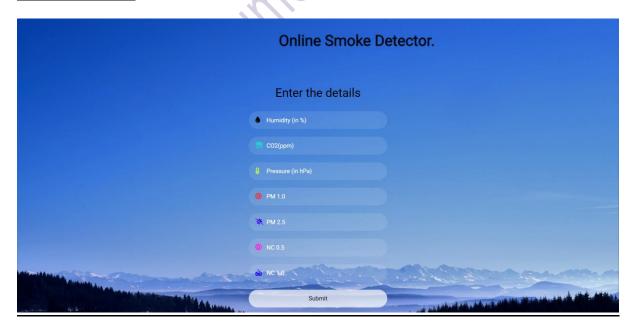
Sadiya Rasool (VIT Vellore)[20MID0190]

Prerequires for the developer:

The developer should have an inordinate knowledge of Python, Flask and various other libraries of the web development, like the pickle and other libraries.

He/she should also be aware of the data science tools and techniques, like the matplotlib and seaborn.

User Interface.



Technical interface

```
pfrom flask import Flask, render_template, request
import pickle
Dimport numpy as np

app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))

@app.route('/')
Odef hello_world():
    return render_template('index.html')

@app.route("/predict", methods=["POST"])
float_features = [float(x) for x in request.form.values()]
    final = np.array(float_features, ndmin=2)
    prediction = model.predict(final)
    res = str(prediction[0])
    if res == '0':
        ans = "not detected"
else:
        ans = "detected"
```

```
* Serving Flask app 'app'

* Debug mode: on

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

* Running on <a href="http://127.8.8.1:5106">http://127.8.8.1:5106</a>

Press CTRL+C to quit

* Restarting with watchdog (windowsapi)

* Debugger is active!

* Debugger PIN: 934-468-725
```

Repair Manual/ video links.

https://drive.google.com/file/d/1E9FCHwj3S-G4oPzUYEFwLOjJK2K0o63C/view?usp=drive_link

https://youtu.be/iJ4hQezx2W0

<u>END</u>