

DEVELOP A PYTHON SCRIPT

Date	31 october 2022
Team Id	PNT2022TMID42771
Project Name	Project - Signs with smart connectivity for Better road safety

Signs with smart connectivity for Better road safety

Create a code snippet using python to

1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

The screenshot shows a web browser window with the OpenWeatherMap API page. The browser's address bar shows 'openweathermap.org/api'. The page has a dark header with the OpenWeather logo and navigation links. The main content area is titled 'Weather API' and includes a 'Home / Weather API' breadcrumb. A message encourages users to sign up for the fast and easy-to-work weather APIs. The 'One Call API 3.0' is highlighted as a new feature. Below this, there are buttons for 'API doc' and 'Subscribe'. A list of features for the One Call API is provided, including minute, hourly, and daily forecasts, historical data, and national weather alerts. A pricing section for 'Pay as you call' shows '1,000 API calls per day for free' and '0.0012 GBP per API call over the daily limit', with a 'Subscribe to One Call by Call' button. A link to the FAQ is also present. The bottom of the page shows the 'Professional collections' section. The Windows taskbar is visible at the bottom of the screen.

OpenWeatherMap API

Weather API

Please, [sign up](#) to use our fast and easy-to-work weather APIs. As a start to use OpenWeather products, we recommend our [One Call API 3.0](#). For more functionality, please consider our products, which are included in [professional collections](#).

One Call API 3.0 **NEW**

[API doc](#) [Subscribe](#)

Make one API call and receive all essential weather data in one response:

- Minute forecast for 1 hour
- Hourly forecast for 48 hours
- Daily forecast for 8 days
- Historical data for 40+ years back by timestamp
- National weather alerts

Read more about this API and subscription plan in the [FAQ](#).

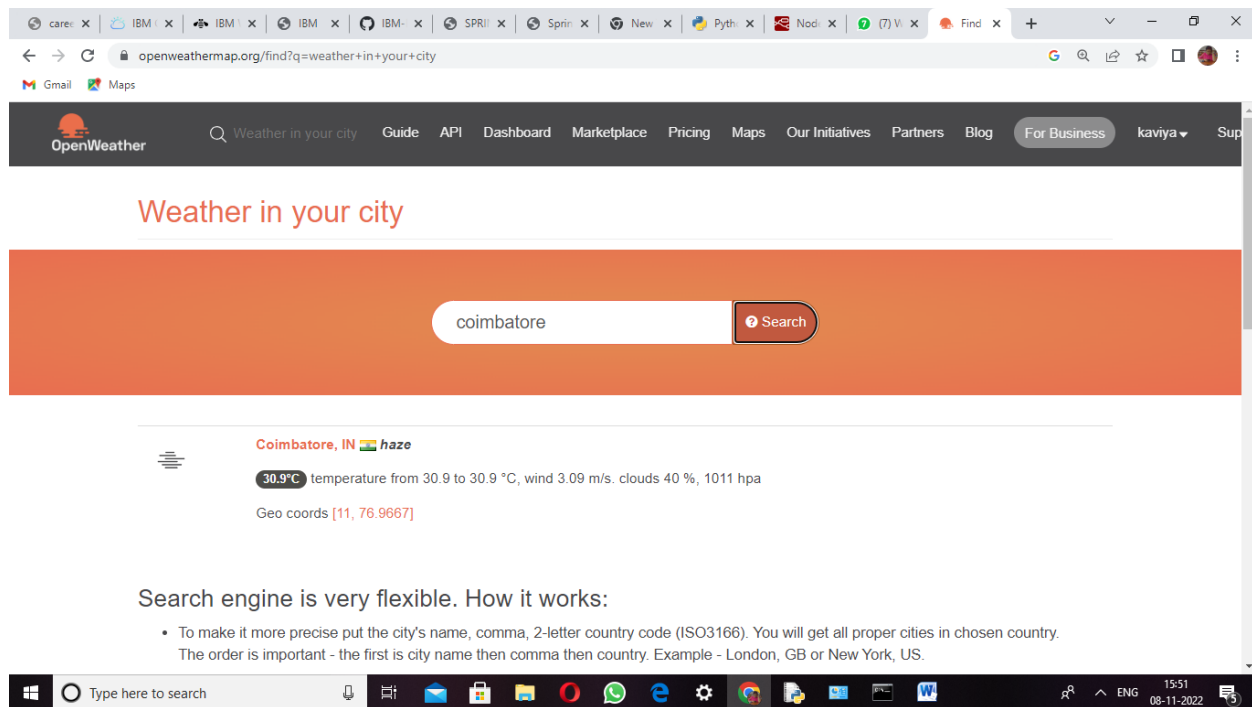
Pay as you call

1,000 API calls per day for free
0.0012 GBP per API call over the daily limit

[Subscribe to One Call by Call](#)

This is a separate subscription plan, which include only One Call API.

Professional collections



Code :

import requests

a="https://openweathermap.org/weathermap?basemap=map&cities=true&layer=temperature&lat=13.0878&lon=80.2785&zoom=12"

r = requests.get(url=a)

data = r.json()

print(r)

print(data)

temp = data["main"]["temp"]

hum = data["main"]["humidity"]

print("Temperature is :",temp)

print("Humidity is :",hum)

```
eg.py - C:/Python/Python37/eg.py (3.7.4)
File Edit Format Run Options Window Help

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=coimbatore,IN&appid=6d13d12f9cd34a07871a5795d01e2c47"
r = requests.get(url=a)
data = r.json()
print(r)
print(data)
temp = data["main"]["temp"]
hum = data["main"]["humidity"]
print("Temperature is :",temp)
print("Humidity is :",hum)
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:099359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Python/Python37/eg.py =====
<Response [200]>
{'coord': {'lon': 76.9667, 'lat': 11}, 'weather': [{'id': 721, 'main': 'Haze', '
description': 'haze', 'icon': '50d'}], 'base': 'stations', 'main': {'temp': 304.
03, 'feels_like': 305.76, 'temp_min': 304.03, 'temp_max': 304.03, 'pressure': 10
11, 'humidity': 51, 'visibility': 5000, 'wind': {'speed': 3.09, 'deg': 60}, 'cl
ouds': {'all': 40}, 'dt': 1667902461, 'sys': {'type': 1, 'id': 9206, 'country':
'IN', 'sunrise': 1667868332, 'sunset': 1667910373}, 'timezone': 19800, 'id': 127
3865, 'name': 'Coimbatore', 'cod': 200}
Temperature is : 304.03
Humidity is : 51
>>> |
```

Ln: 2 Col: 63

Type here to search

15:46
08-11-2022