

DEVELOP A PYTHON SCRIPT

Date	18 september 2022
Team ID	PNT2022TMID13834
Project Name	Project – Signs with Smart Connectivity for Better Road Safety

SIGN WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

Create a code snippet using python to

1. Extract weather data from Open Weather Map using API's
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it from the python compiler

The screenshot shows the OpenWeather API website. The browser's address bar displays 'openweathermap.org/api'. The website's navigation bar includes links for Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, and Support. 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. Below this, the 'One Call API 3.0' is highlighted as 'NEW'. It offers a 'Pay as you call' option with '1,000 API calls per day for free' and '0.0012 GBP per API call over the daily limit'. A 'Subscribe to One Call by Call' button is visible. The 'Professional collections' section recommends the 'Current & Forecasts collection', 'Historical weather data collection', and 'Weather Maps collection'. A 'How to Start' guide is also mentioned. The footer shows the current weather as 26°C and 'Partly cloudy'.

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openweathermap.org/api

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Weather API

Home / 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

For professionals and specialists with middle sized project, we recommend our Professional collections, which included [Current & Forecasts collection](#), [Historical weather data collection](#), [Weather Maps collection](#) and other APIs.

For Enterprise level projects we provide Enterprise license, which is included all forecast products and current state, along with alerts, maps, and other products. [Learn more](#)

You can read the [How to Start](#) guide and enjoy using our powerful weather APIs right now.

Current & Forecast weather data collection

26°C
Partly cloudy

Q Search

ENG US 8:32 pm 18/11/2022


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openweathermap.org/find?q=chennai

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Weather in your city

**Bengaluru, IN** overcast clouds
19.9°C temperature from 19.9 to 19.9 °C, wind 2.95 m/s, clouds 100 %, 1015 hpa
Geo coords [12.9762, 77.6033]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

**Get digital marketing for grown-ups**

Product Collections

Subscription

Company

IBM PROJECT OBJ...pdf Show all

25°C Mostly cloudy

Windows taskbar: Search, File Explorer, Edge, Word, Teams, OneDrive, etc.

9:58 pm 18/11/2022

weatherMap.py - E:/IBM/pre/weatherMap.py (3.6.5)

File Edit Format Run Options Window Help

```
import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,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 3.6.5 Shell

File Edit Shell Debug Options Window Help

```
<Response [200]>
Temperature is : 298.14
>>>
===== RESTART: E:/IBM/pre/weatherMap.py =====
=====
<Response [200]>
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50n'}, {'id': 500, 'main': 'Rain', 'description': 'light rain', 'icon': '10n'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 298.14, 'pressure': 1012, 'humidity': 94}, 'visibility': 2500, 'wind': {'speed': 1.54, 'deg': 350}, 'rain': {'1h': 0.12}, 'clouds': {'all': 75}, 'dt': 1667317416, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise': 1667262751, 'sunset': 1667304738}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
Temperature is : 298.14
Humidity is : 94
>>>
```

Ln: 17 Col: 4

Ln: 10 Col: 26