

DEVELOP A PYTHON SCRIPT

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TEAM ID	PNT2022TMID21273
PROJECT NAME	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

The screenshot shows the OpenWeather API documentation page for current weather data. The page is titled "Current weather data" and includes a navigation bar with links to Home, API, Current weather, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, nk, and Support. The main content area explains that the API provides current weather data for any location on Earth, including over 200,000 cities. It lists the data sources (global and local weather models, satellites, radars) and the available formats (JSON, XML, or HTML). The page also includes a section for "Call current weather data" with a "How to make an API call" subsection. This subsection shows the API call URL: `https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}`. Below the URL, there are two parameters: "lat, lon" (required) and "appid" (required). The "lat, lon" parameter is described as "Geographical coordinates (latitude, longitude). If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please use our Geocoding API." The "appid" parameter is described as "Your unique API key (you can always find it on your account page under the 'API key' tab)". On the right side of the page, there is a sidebar with links to various API features: "Call current weather data", "How to make an API call", "Bulk downloading", "Weather fields in API response", "JSON", "XML", "List of condition codes", "Min/max temperature in current weather", "API and forecast API", "Other features", "Geocoding API", "Built-in geocoding", "Built-in API request by city name", "Built-in API request by city ID", "Built-in API request by ZIP code", "Format", "Units of measurement", "Multilingual support", and "Call back function for JavaScript code". At the bottom right, there is a "CrowdStrike Falcon Go" logo with the text "protects your systems".

CODE:

```
import requests
```

```
a="https://api.openweathermap.org/data/2.5/weather?lat=9.939093&lon=78.121719&appid=774e289f963ae64e2b43500df7bd1053"
```

```
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)
```

Find - OpenWeatherMap x +
https://openweathermap.org/find?q=madurai

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business nk Support

Weather in your city

madurai Search


 **Madurai, IN**  *mist*

27°C temperature from 27 to 27 °C, wind 2.57 m/s, clouds 40 %, 1013 hpa

Geo coords [9.9333, 78.1167]

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.

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```
scriptpy - E:/bm/python script/script.py (3.9.11)
File Edit Format Run Options Window Help

import requests
a="https://api.openweathermap.org/data/2.5/weather?lat=9.939093&lon=78.121719&appid=774e289f963ae64e2b43500df7bd1053"
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)
|
```

10:18 AM
17-11-2022

```
IDLE Shell 3.9.11
File Edit Shell Debug Options Window Help
Python 3.9.11 (tags/v3.9.11:2de452f, Mar 16 2022, 14:33:45) [MSC v.1929 64 bit (AMD64)] on
win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:/ibm/python script/script.py =====
<Response [200]>
{'coord': {'lon': 78.1217, 'lat': 9.9391}, 'weather': [{'id': 701, 'main': 'Mist', 'descri
ption': 'mist', 'icon': '50d'}], 'base': 'stations', 'main': {'temp': 301.16, 'feels_like'
: 304.39, 'temp_min': 301.16, 'temp_max': 301.16, 'pressure': 1013, 'humidity': 74}, 'visi
bility': 3000, 'wind': {'speed': 3.09, 'deg': 60}, 'clouds': {'all': 40}, 'dt': 1668660402
, 'sys': {'type': 1, 'id': 9216, 'country': 'IN', 'sunrise': 1668645764, 'sunset': 1668687
740}, 'timezone': 19800, 'id': 1264521, 'name': 'Madurai', 'cod': 200}
Temperature is : 301.16
Humidity is : 74
>>> |
```