

# Develop the Python Script

(Develop a Python script)

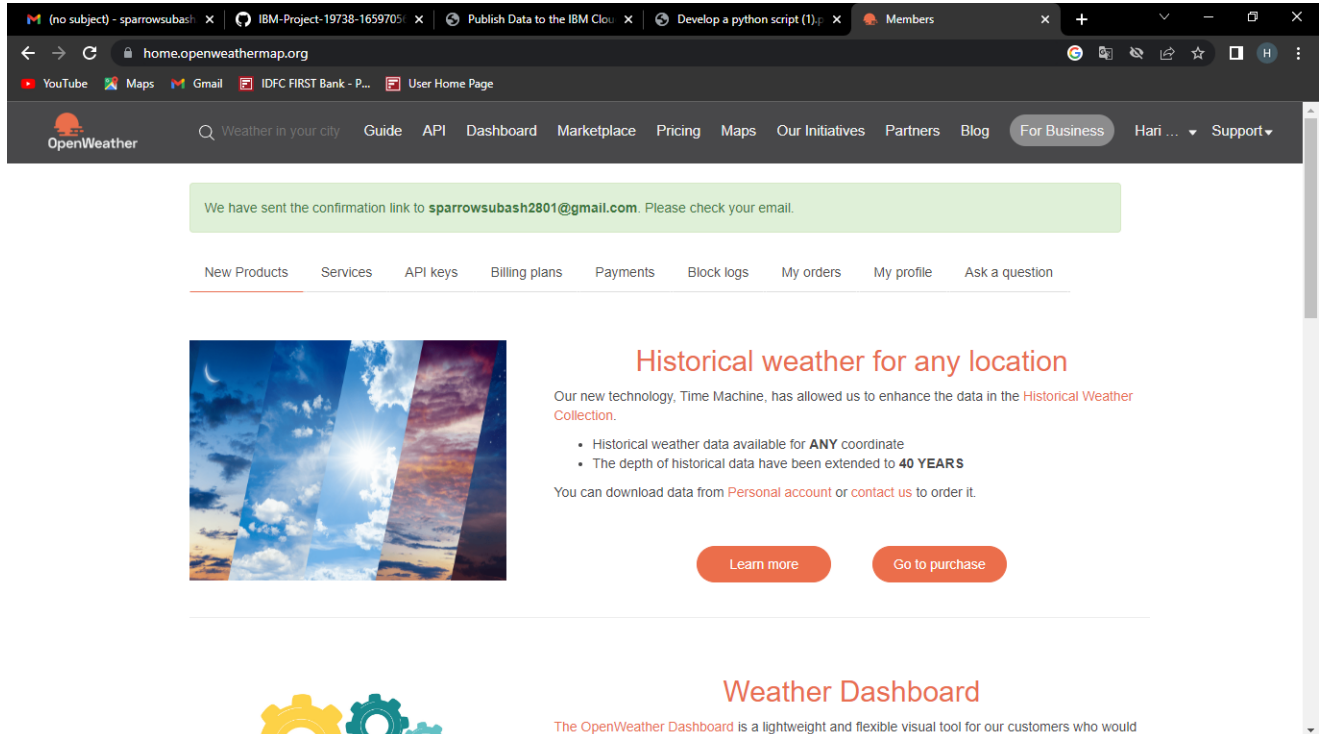
|              |  |
|--------------|--|
| Team ID      | PNT2022TMID30870                                     |
| Project Name | Industry-specific intelligent fire management system |

## Industry-specific intelligent fire management system

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

HARI SUBASH S

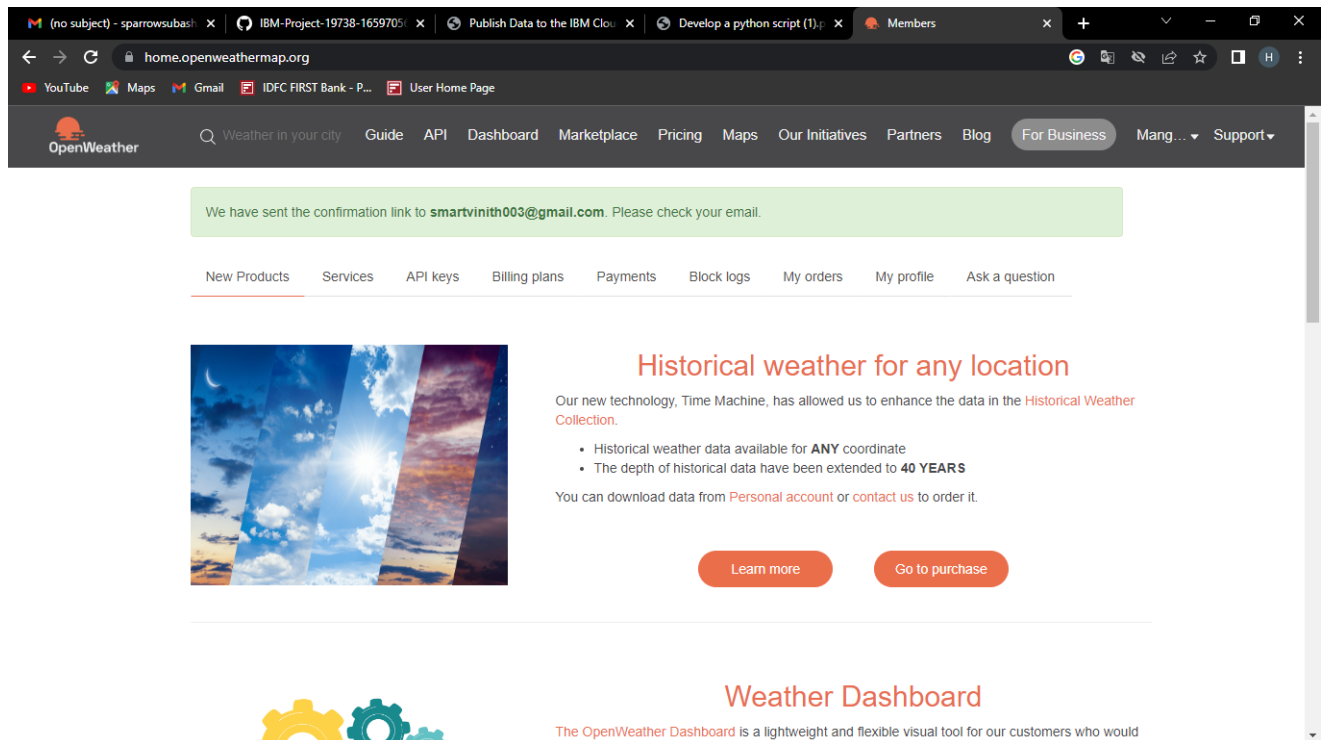


The screenshot shows a web browser window with multiple tabs. The active tab is 'home.openweathermap.org'. A green confirmation message at the top states: 'We have sent the confirmation link to [sparrowsubash2801@gmail.com](mailto:sparrowsubash2801@gmail.com). Please check your email.' Below this, a navigation bar includes links for 'New Products', 'Services', 'API keys', 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. The main content area features a large image of a sunset over a body of water. To the right of the image, the heading 'Historical weather for any location' is displayed in orange. Below the heading, text describes the 'Time Machine' technology and lists two bullet points: 'Historical weather data available for **ANY** coordinate' and 'The depth of historical data have been extended to **40 YEARS**'. Two orange buttons, 'Learn more' and 'Go to purchase', are positioned at the bottom of this section. At the very bottom of the page, a 'Weather Dashboard' section is partially visible, featuring a gear icon and the text 'The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would'.

KALAIYARASAN K:

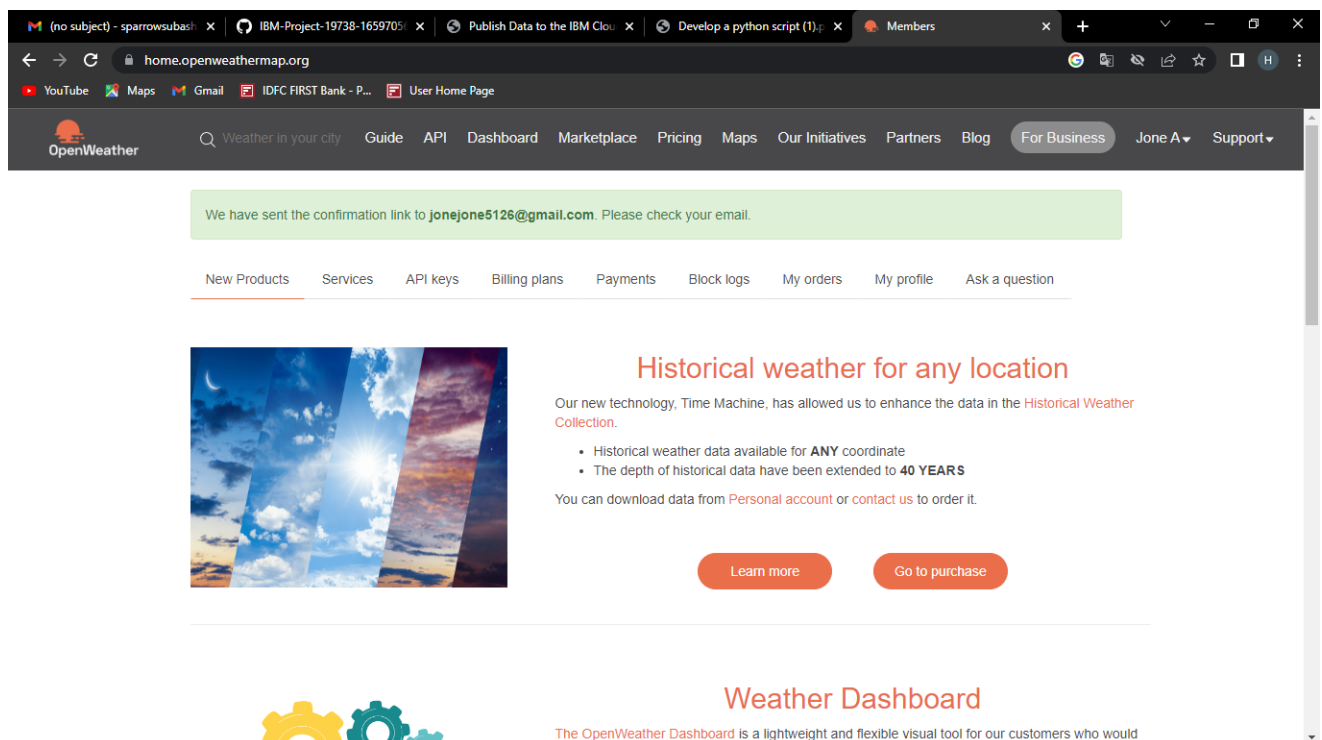


## MANGALA VINITH G



The screenshot shows the OpenWeather website with a confirmation message: "We have sent the confirmation link to [smartvinith003@gmail.com](mailto:smartvinith003@gmail.com). Please check your email." The navigation bar includes links for Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Mang..., and Support. Below the message, there is a horizontal menu with links: New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, and Ask a question. The main content area features a large image of a sunset and the heading "Historical weather for any location". The text below the image states: "Our new technology, Time Machine, has allowed us to enhance the data in the [Historical Weather Collection](#)." It lists two bullet points: "Historical weather data available for **ANY** coordinate" and "The depth of historical data have been extended to **40 YEARS**". It also mentions: "You can download data from [Personal account](#) or [contact us](#) to order it." At the bottom, there are two buttons: "Learn more" and "Go to purchase". The footer includes a gear icon and the heading "Weather Dashboard", followed by the text: "The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would".

## JONE A:



The screenshot shows the OpenWeather website with a confirmation message: "We have sent the confirmation link to [jonejone5126@gmail.com](mailto:jonejone5126@gmail.com). Please check your email." The navigation bar includes links for Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, Jone A, and Support. Below the message, there is a horizontal menu with links: New Products, Services, API keys, Billing plans, Payments, Block logs, My orders, My profile, and Ask a question. The main content area features a large image of a sunset and the heading "Historical weather for any location". The text below the image states: "Our new technology, Time Machine, has allowed us to enhance the data in the [Historical Weather Collection](#)." It lists two bullet points: "Historical weather data available for **ANY** coordinate" and "The depth of historical data have been extended to **40 YEARS**". It also mentions: "You can download data from [Personal account](#) or [contact us](#) to order it." At the bottom, there are two buttons: "Learn more" and "Go to purchase". The footer includes a gear icon and the heading "Weather Dashboard", followed by the text: "The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would".

## OUTPUT:

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: 10 Col: 26