

Develop the python script

Date	09 November 2022
Team id	PNT2022TMID51172
Project name	Signs with smart connectivity for better road safety

Create a code snippet using python to

- Extract weather data from OpenWeatherMap using APIs
- Send the extracted data to the cloud
- Receive data from the cloud and view it in the python compiler

The screenshot shows the OpenWeatherMap website's API keys management interface. The browser address bar displays 'home.openweathermap.org/api_keys'. The page features a top navigation bar with links like 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'Swat...', and 'Support'. Below this, a secondary navigation bar includes 'New Products', 'Services', 'API keys' (which is highlighted), 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. A light blue informational box states: 'You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.' The main content area contains a table of existing API keys and a 'Create key' section. The table has columns for 'Key', 'Name', 'Status', and 'Actions'. It lists two keys: one with a long alphanumeric key and the name 'Default', and another with a shorter key and the name 'weather'. Both are 'Active'. The 'Create key' section includes a text input for 'API key name' and a 'Generate' button. At the bottom, there are three columns of links: 'Product Collections' (Current and Forecast APIs, Historical Weather Data, Weather Maps, Weather Dashboard), 'Subscription' (How to start, Pricing, Subscribe for free, FAQ), and 'Company' (a paragraph about OpenWeatherMap's history and services).

Key	Name	Status	Actions
76d24dec9915b133df9bdef90b7c215a	Default	Active	Copy Edit Delete
809ee9f338cc007368d4883a9cd20f8	weather	Active	Copy Edit Delete

Create key

API key name Generate

Product Collections

- Current and Forecast APIs
- Historical Weather Data
- Weather Maps
- Weather Dashboard

Subscription

- How to start
- Pricing
- Subscribe for free
- FAQ

Company

OpenWeather is a team of IT experts and data scientists that has been practising deep weather data science since 2014. For each point on the globe, OpenWeather provides historical, current and forecasted weather data via light-speed APIs. Headquarters in

Find - OpenWeatherMap x +

openweathermap.org/find?utf8=✓&q=bangalore

OpenWeather

Weather in your city

Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Swat... Support

Weather in your city

bangalore Search

Bengaluru, IN overcast clouds

20.9°C temperature from 20.9 to 20.9 °C, wind 4.88 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.

SEMURSH Free Social Media Tools GET NOW

Find - OpenWeatherMap x +

https://api.openweathermap.org x +

api.openweathermap.org/data/2.5/weather?q=Bengaluru,%20IN&appid=76d24dec9915b133df9bdef90b7c215a

```
{
  "coord": {
    "lon": 77.6033,
    "lat": 12.9762
  },
  "weather": [
    {
      "id": 802,
      "main": "Clouds",
      "description": "scattered clouds",
      "icon": "03n"
    }
  ],
  "base": "stations",
  "main": {
    "temp": 293.95,
    "feels_like": 294.25,
    "temp_min": 293.95,
    "temp_max": 294.05,
    "pressure": 1018,
    "humidity": 83,
    "visibility": 6000,
    "wind": {
      "speed": 4.12,
      "deg": 60
    },
    "clouds": {
      "all": 40
    },
    "dt": 1668094180,
    "sys": {
      "type": 1,
      "id": 9205,
      "country": "IN",
      "sunrise": 1668041170,
      "sunset": 1668082852,
      "timezone": 19800,
      "id": 1277333,
      "name": "Bengaluru",
      "cod": 200
    }
  }
}
```

