

Develop the python script

Date	09 November 2022
Team id	PNT2022TMID51225
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 API keys management interface. The browser address bar displays 'home.openweathermap.org/api_keys'. The page features a 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 the navigation bar, there's a section for 'API keys' with a message: 'You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.' A table lists existing API keys with columns for 'Key', 'Name', 'Status', and 'Actions'. Two keys are shown: one with a default name and another named 'weather'. To the right, there's a 'Create key' section with an input field for 'API key name' and a 'Generate' button. The footer contains three columns: 'Product Collections' (Current and Forecast APIs, Historical Weather Data, Weather Maps, Weather Dashboard), 'Subscription' (How to start, Pricing, Subscribe for free, FAQ), and 'Company' (OpenWeatherMap description and headquarters location).

Key	Name	Status	Actions
76d24dec9915b133df9bdef90b7c215a	Default	Active	Toggle Edit Delete
809ee9f330cc007368d4883a9cd20f0	weather	Active	Toggle 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

Search

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
    }
  }
}
```

