

## DNEXT API - Code Example - Download a dataset

The below code can be used to download a dataset from the platform:

```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5
6
7 def _get_task_status(task_id, token):
8     my_headers = {
9         'Authorization': 'Bearer ' + token,
10        'Content-Type': 'application/json'
11    }
12
13    success = False
14    wait_time = 2
15
16    while not success and wait_time < 30:
17        time.sleep(wait_time)
18
19        status_res =
20    requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}', headers=my_headers)
21
22        try:
23            success = status_res.json()['status'] == 'SUCCEEDED'
24        except:
25            wait_time += 1
26            continue
27
28        if not success:
29            wait_time += 1
30
31    if success:
32        return True
33    else:
34        return False
35
36 def download_dataset(code, token):
37
38    my_headers = {
39        'Authorization': 'Bearer ' + token,
40        'Content-Type': 'application/json'
41    }
42
43    dl_url =
44    f'https://api.dnext.io/v1.0/data/datasets/{code}/download'
45
46    res = requests.post(dl_url, headers=my_headers)
47
48    task_id = res.json()['task']['id']
49
50    data_ready = _get_task_status(task_id, token)
51
52    if data_ready:
53        data_url = res.json()['result']['url']
54        data_resp = requests.get(data_url)
55        df = pd.read_csv(BytesIO(data_resp.content))
56
57    else:
58        df = None
```

```

59     return df
60
61
62 df = download_dataset(<dataset_code>, <your_token>)
63

```

Note : you can find the [dataset\\_code](#) either in the list of datasets in the code column

| Name                                     | Frequency | Status | Operations   |
|--|-----------|--------|--|
| stage-nass-syb-usa-snd-item-weekly       | Success   | Green  | <a href="#">Edit</a> <a href="#">Trigger</a> <a href="#">Status</a> <a href="#">Lock</a> <a href="#">Execution paths</a> |
| stage-e406f0a-60ff-11ef-8267-0a3b464c    | -         | Yellow | <a href="#">Copy</a> <a href="#">Copy with Headers</a> <a href="#">Stop E...</a> <a href="#">Export</a>                  |
| stage-f9dc547-6f92-4e40-b865-d5e5d7f7    | -         | Yellow | <a href="#">Copy</a> <a href="#">Copy with Headers</a> <a href="#">Stop E...</a> <a href="#">Export</a>                  |
| stage-dneur-sbs-bra-prod-forecast-weekly | FOREC...  | Yellow | <a href="#">Edit</a> <a href="#">Trigger</a> <a href="#">Status</a> <a href="#">Lock</a> <a href="#">Execution paths</a> |

or in the summary page of the dataset

| General  |
|--|
| Dataset Code: stage-nass-syb-usa-snd-item-weekly       |
| Dataset Status: Active                                 |
| Dataset Grade: Gold                                    |
| Data Last updated: February 13, 2025 - 9:54 pm         |
| Metadata Last updated: January 27, 2025 - 4:03 pm      |
| Creation date: January 27, 2025 - 2:09 pm              |
| Created by: Bastien Lambert (bastien.lambert@dnext.io) |
| Last execution: February 13, 2025 - 10:10 pm           |
| Last extraction: February 13, 2025 - 9:42 am           |