

## 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 < 10:
17        time.sleep(wait_time)
18
19        status_res = requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}', headers=my_headers)
20
21        try:
22            success = status_res.json()['status'] == 'SUCCEEDED'
23        except:
24            wait_time += 1
25            continue
26
27        if not success:
28            wait_time += 1
29
30    if success:
31        return True
32    else:
33        return False
34
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 = f'https://api.dnext.io/v1.0/data/datasets/{code}/download'
44
45     res = requests.post(dl_url, headers=my_headers)
46
47     task_id = res.json()['task']['id']
48
49     data_ready = _get_task_status(task_id, token)
50
51     if data_ready:
```

```
52     data_url = res.json()['result']['url']
53     data_resp = requests.get(data_url)
54     df = pd.read_csv(BytesIO(data_resp.content))
55
56     else:
57         df = None
58
59     return df
60
61
62 df = download_dataset(<dataset_code>, <your_token>)
```