

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}',
21                    headers=my_headers)
22
23        try:
24            success = status_res.json()['status'] == 'SUCCEEDED'
25        except:
26            wait_time += 1
27            continue
28
29        if not success:
30            wait_time += 1
31
32    if success:
33        return True
34    else:
35        return False
36
37 def download_dataset(code, token):
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
```