

## DNEXT API - Code Example - Download a dataset

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

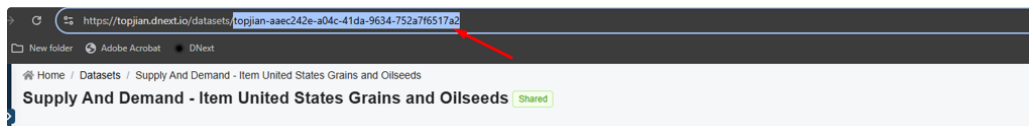
```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5
6
7 def _get_task_status(task_id, token):
8     my_headers = {
9         'Authorization': 'Bearer ' + token,
10        'Content-Type': 'application/json'
11    }
12
13    success = False
14    wait_time = 2
15
16    while not success and wait_time < 30:
17        time.sleep(wait_time)
18
19        status_res = requests.get(f'https://api.dnext.io/v1.0/tasks/{task_id}',
20                                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 = 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>)

```

You can fetch the dataset code from the url directly



or from the “Code” Column in the list of datasets

The screenshot shows a table of datasets. The columns are: State, Grade, Shared, Shareable, Code, Name, Trigger, Status, Lock, Execution path, Loader, Frequency, Labels. A red arrow points to the 'Code' column. The table contains several rows of dataset information.

State	Grade	Shared	Shareable	Code	Name	Trigger	Status	Lock	Execution path	Loader	Frequency	Labels
-	-	✓	✓	topjian-1f48b6d2-7478-48f5-8a...	TradeFlow - Customs - Brazil All mo...	-	-	-	-	-	monthly	🔍 📄 🔄 🗑️
-	-	✓	✓	topjian-1ab41727-a301-11e4-a5...	Wheat WORLD DND/TEM m...	-	-	-	-	-	weekly	🔍 📄 🔄 🗑️
-	-	✓	✓	topjian-74a5163-ef68-4ca7-af...	TradeFlow - Customs - Europe All ...	-	-	-	-	-	monthly	🔍 📄 🔄 🗑️
-	-	✓	✓	topjian-886c359f-d554-4af1-9c...	TradeFlow - Customs - India All mo...	-	-	-	-	-	monthly	🔍 📄 🔄 🗑️