

Lab2. Querying user's connection using Facebook using the Graph API and retrieving feed and engagement

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step 1

```
In [17]: ACCESS_TOKEN = "EAAIrmUmPQ18BADeApDsSBsRzu1xWtvmhAb0LGxJ8CAd3iBZAzkQFdQcmw7j9Ak"
```

```
In [14]: !pip install facebook-sdk
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: facebook-sdk in c:\users\user\appdata\roaming\python\python39\site-packages (3.1.0)
Requirement already satisfied: requests in c:\programdata\anaconda3\lib\site-packages (from facebook-sdk) (2.28.1)
Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests->facebook-sdk) (3.3)
Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests->facebook-sdk) (2022.9.14)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests->facebook-sdk) (1.26.11)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests->facebook-sdk) (2.0.4)
```

step 2

```
In [15]: import facebook
import urllib3
import requests
import json
```

step 3

```
In [18]: def pp(o):
          print(json.dumps(o, indent=1))
          g=facebook.GraphAPI(ACCESS_TOKEN, version='2.10')
          pp(g.get_object('me'))

          {
            "name": "Thenkuzhali S",
            "id": "101313633049844"
          }
```

step 4: Get the user's connection names - likes, friends, feed, groups

```
In [27]: pp(g.get_connections(id = 'me', connection_name='likes'))

          {
            "data": [
              {
                "name": "Machine Learning Mastery",
                "id": "1429846323896563",
                "created_time": "2023-07-19T09:29:05+0000"
              }
            ],
            "paging": {
              "cursors": {
                "before": "MTQyOTg0NjMyMzg5NjU2MwZDZD",
                "after": "MTQyOTg0NjMyMzg5NjU2MwZDZD"
              }
            }
          }
```

```
In [25]: pp(g.get_connections(id = 'me', connection_name='friends'))

          {
            "data": [],
            "summary": {
              "total_count": 3
            }
          }
```

```
In [23]: pp(g.get_connections(id = 'me', connection_name='feed'))
```

```
{
  "data": [
    {
      "created_time": "2023-07-19T09:17:48+0000",
      "message": "Querying user\u2019s connection information using Facebook Gra
ph API and retrieving feed and engagement",
      "id": "101313633049844_101384549709419"
    },
    {
      "created_time": "2023-07-19T06:46:21+0000",
      "id": "101313633049844_101299859717888"
    },
    {
      "created_time": "2002-03-31T08:00:00+0000",
      "id": "101313633049844_101295999718274"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101313633049844/feed?access_t
oken=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSG
vVYg41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a31
0bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfl6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9M
kTZBcF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689758268&until
&__paging_token=enc_AdC574kkJPES4pZBs0yNZAFY9tTWKHpZAJbzGjwm0jKwh8Cpkr4g00zdk
WL58KtY2gEs1QcmCS4xhI1aEZBkra7dhYwncZCeocWGPIE3ZBy5UZBn645AZDZD",
    "next": "https://graph.facebook.com/v17.0/101313633049844/feed?access_token
=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg
41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZB
WZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfl6hbMChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZB
cF5MDugUqHwlankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=e
nc_ADBUGN0gokBcPsZBjbYA3jQ8nH5UwGWjjCapsQysOBrmBDHgBFtRLGoy4j56sC04QTlKzfS1fu
3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgZDZD&__previous"
  }
}
```

```
In [24]: pp(g.get_connections(id = 'me', connection_name='groups'))
```

```
{
  "data": [
    {
      "name": "Python Machine Learning",
      "id": "699038760180241"
    },
    {
      "name": "MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE PROFESSIONALS GROU
P",
      "id": "197964893963666"
    },
    {
      "name": "Artificial intelligence, Machine learning, Deep learning",
      "id": "2059467967664033"
    }
  ],
  "paging": {
    "cursors": {
      "before": "QVFIUjg1WmVya0wxZAXBnSTRMdnhZAWUhfZAK1LbGJEbFlVekRITVg2SkozM2ls
SWE4eVYtRUbnMTVKejVMOEJVZAWZA2cm96X0ptOXBnanA5WFFobmE4c2ZAia2hn",
      "after": "QVFIUmFvalRzRVRTcVF1emNTRXc0UkxkMVBZAdFFCX2dhSWVOX0ZAKQmFoOUpaNV
lWSmJWbUJtLVY4TWVMTlc5MEJBZAUo1VWtYV2hycGRuVE9XQUxzUkN3c29n"
    }
  }
}
```

step 5: Get information about a feed in your facebook post

```
In [30]: pp(g.get_connections(id = 'me', connection_name='feed'))

{
  "data": [
    {
      "created_time": "2023-07-19T09:50:01+0000",
      "message": "cute dog Shirley Shirley",
      "id": "101313633049844_101400603041147"
    },
    {
      "created_time": "2023-07-19T09:17:48+0000",
      "message": "Querying user\u2019s connection information using Facebook Graph API and retrieving feed and engagement",
      "id": "101313633049844_101384549709419"
    },
    {
      "created_time": "2023-07-19T06:46:21+0000",
      "id": "101313633049844_101299859717888"
    },
    {
      "created_time": "2002-03-31T08:00:00+0000",
      "id": "101313633049844_101295999718274"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101313633049844/feed?access_token=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBTWVX1CfAt9MkTZBcF5MDugUqHwLankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689760201&until&__paging_token=enc_AdA6IZByKUG8ZAuovVsmvqqWrSswcxMLrGlULd00MaUZAeqfpVqyY4ZCtvA3sez0bxE49udWQZCulK2CitlRdWDxLCUvT5isazjT70a4Ko7vBuuuhgQZDZD",
    "next": "https://graph.facebook.com/v17.0/101313633049844/feed?access_token=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfL6hbMChfQfoBW67xsZA6iJE3kBTWVX1CfAt9MkTZBcF5MDugUqHwLankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=enc_AdBUGNOgokBcPsZbjbYA3jQ8nH5UwGWjjCapsQysOBrmBDHgBfTRLGoy4j56sC04QT1KzfS1fu3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgZDZD&__previous"
  }
}
```

step 6: Get the metric towards engagement of connections towards your Facebook

```
In [35]: pp(g.get_connections(id = 'me', connection_name='posts'))

{
  "data": [
    {
      "created_time": "2023-07-19T09:50:01+0000",
      "message": "cute dog Shirley Shirley",
      "id": "101313633049844_101400603041147"
    },
    {
      "created_time": "2023-07-19T09:17:48+0000",
      "message": "Querying user\u2019s connection information using Facebook Graph API and retrieving feed and engagement",
      "id": "101313633049844_101384549709419"
    },
    {
      "created_time": "2023-07-19T06:46:21+0000",
      "id": "101313633049844_101299859717888"
    },
    {
      "created_time": "2002-03-31T08:00:00+0000",
      "id": "101313633049844_101295999718274"
    }
  ],
  "paging": {
    "previous": "https://graph.facebook.com/v17.0/101313633049844/posts?access_token=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfl6hbmChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZBcF5MDugUqHw1ankK7MeaNIZBFty4gnsFVwZD+&__previous=1&since=1689760201&until&__paging_token=enc_AdA6IZByKUG8ZAuovVsmvqqWrSswcxMLrGlULd00MaUZAeqfVqyY4ZCtvA3sez0bxE49udwQZCUlk2CitlRdWDxlCUvT5isazjT70a4Ko7vBuuuhgQZDZD",
    "next": "https://graph.facebook.com/v17.0/101313633049844/posts?access_token=EAAIrmUmPQ18BAKZAduqkzVcOBMgCs8GnLbrYylMK2LPcBSYZBZCfhNy9n95ab3ToaA8QVSGvVYg41bF6PqTqsSDm1NwA3ESHoU7VXYVtefSEeoZBMP0bpv4ReSGUFzOMtLZCJ9LQH7VztTsS2a310bZBWZCER1XpWQdvV2ZBF6joVw9IXoEvZCT0QYnfl6hbmChfQfoBW67xsZA6iJE3kBtWVX1CfAt9MkTZBcF5MDugUqHw1ankK7MeaNIZBFty4gnsFVwZD+&until=1017561600&since&__paging_token=enc_AdBUGNOgokBcPsZBjbYA3jQ8nH5UwGwjCapsQysOBrmBDHgbFtRLGoy4j56sC04QT1KzfS1fu3hShLU6ZB2VqPQJDK0j37Bw7Gfe9Tan0aqIXYgZDZD&__previous"
  }
}
```

In []: