How to obtain your Twitter API credentials:

As part of the first tutorial in the hackathon, you will need access to the <u>Twitter API</u> in order to collect Twitter data. To do this you will need to obtain the following API credentials from Twitter:

- API key
- API secret key
- Access token
- Access token secret

Have these credentials on hand during in time for the event, as you will need to copy and paste them into an existing Python file during tutorial 1.

To obtain these you will need to follow the steps below:

- Step 1: Sign up for a Twitter account here: https://twitter.com (if you don't already have one)
- Step 2: Apply for a developer account here: https://developer.twitter.com/en/apply-for-access
 - Select "Apply for a developer account"

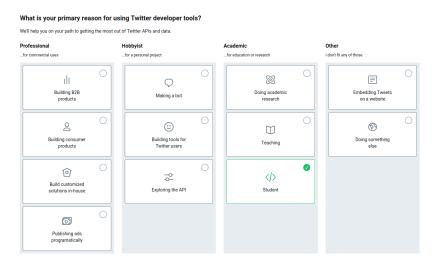
Get started with Twitter APIs and tools

Apply for access

All new developers must apply for a developer account to access Twitter APIs. Once approved, you can begin to use our standard APIs and our new premium APIs.



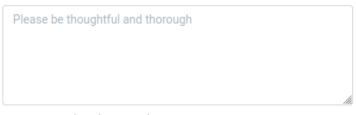
Select "Student" as your reason for requiring the developer tools



- ➤ Fill in your personal details (you will need to provide a working phone number)
- > Fill in details about how you plan to use the Twitter API

In your words

In English, please describe how you plan to use Twitter data and/or APIs. For students and teachers, please include the name of the school, the name of the instructor and the course number (if available). The more detailed the response, the easier it is to review and approve.

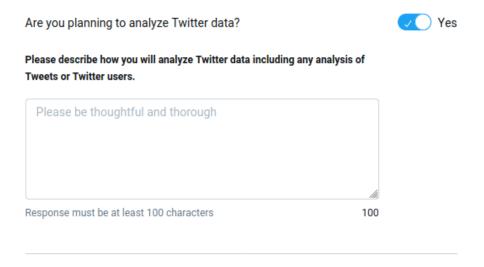


Response must be at least 200 characters

200

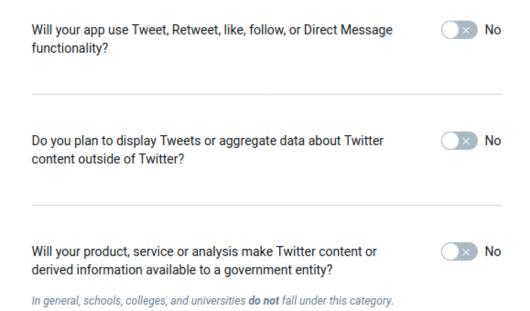
You may want to write something along these lines *in your own words*: "I will be using the API to take part in a DARA Big Data workshop on machine learning. We will use the Twitter API to collect tweets related to COVID-19 from different regions and then perform a sentiment analysis of the tweets."

> Next, describe how you plan to analyse Twitter data

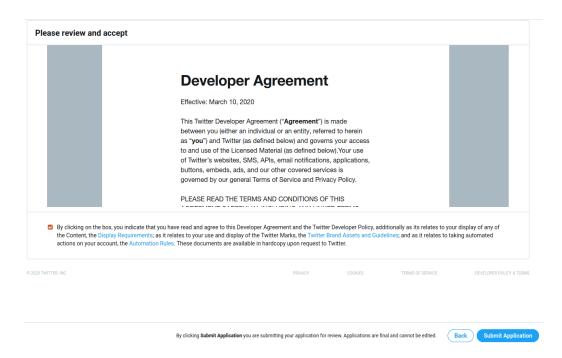


You may write something like the following *in your own words*:: "We will be using machine learning techniques, in particular natural language processing (NLP), to determine sentiments around various topics related to COVID-19 by analysing tweets from around the world."

> You will simple select "No" for the following questions



> Finally, accept the conditions of the Developer Agreement and submit your application



Step 3: Create an API app

Once you have verified your email address you will be taken to your developer page where you will have to enter a name for your app. You can call the app anything you'd like and do not worry too much about the app details. Just be honest about what you will be using the Twitter data for, i.e. research/taking part in a machine learning hackathon in which you analyse the sentiment of COVID-19-related tweets.

If you then go to your Apps page (https://developer.twitter.com/en/apps) you will see the app you created. Select "Details" of the App you created and go to the "Keys and tokens" tab. Your consumer API keys will be listed here. Lastly, you will then generate your access token and access token secret. Please note that you do not require the "Bearer Token" for the purpose of the tutorials.