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:

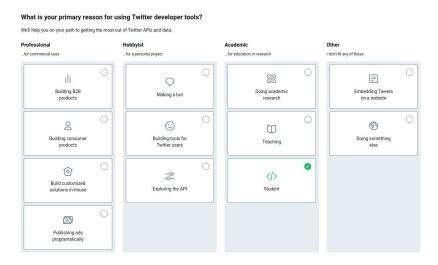
- Step 1: Sign up for a Twitter account here: https://twitter.com (if you don't already have one)
- Step 2: Apply for a developer account here: https://developer.twitter.com/en/apply-for-access
 - Select "Apply for a developer account"

Apply for a developer account

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

Restricted used cases >

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

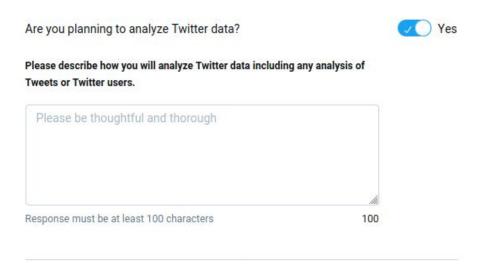
In English, please describe how you plan to use Twitter data and/or APIs. For students and teachers, please include the name of the school, the name of the instructor and the course number (if available). The more detailed the response, the easier it is to review and approve. Please be thoughtful and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

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."

200

> Next, describe how you plan to analyse Twitter data

Response must be at least 200 characters

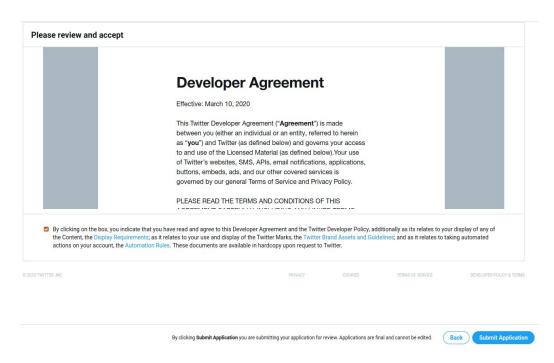


You may write something like the following *in your own words*:: "We will be using machine learning techniques, in particular natural language processing (NLP), to determine sentiments around various topics related to COVID-19 by analysing tweets from around the world."

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

Will your app use Tweet, Retweet, like, follow, or Direct Message functionality?	○× No
Do you plan to display Tweets or aggregate data about Twitter content outside of Twitter?	○× No
Will your product, service or analysis make Twitter content or derived information available to a government entity?	× No
In general schools colleges and universities do not fall under this category.	

> 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.