How to obtain your Twitter API credentials:

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

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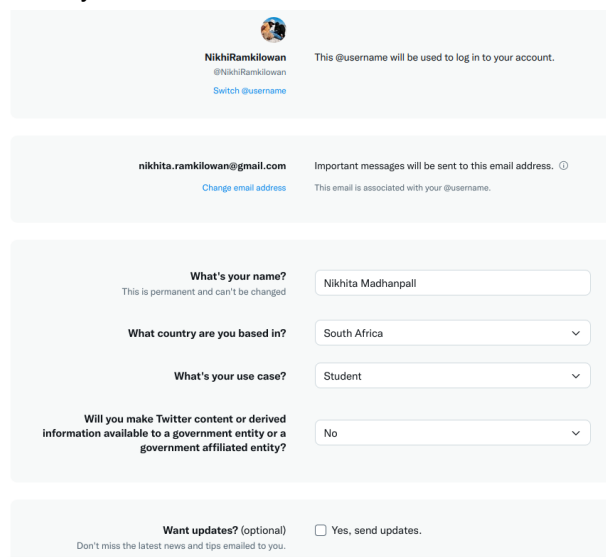- Access token
- Access token secret

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

➢ Fill in your relevant details and select **'Student'** as your use case.

➢ Agree to the Developer Agreement Policy

➢ After verifying your email address you will be taken to this page where you can create your App. Start by giving your App a name, you can call it anything you'd like. Then select the 'Get keys' button.
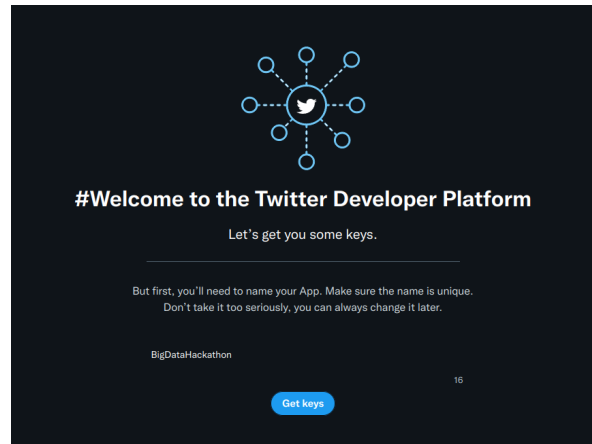

➢ You will then receive your API keys and Bearer Token. You can now copy and paste your *API key* and *API Key Secret* somewhere convenient where you can access them easily for the hackathon. Please note that you do NOT require the Bearer Token.
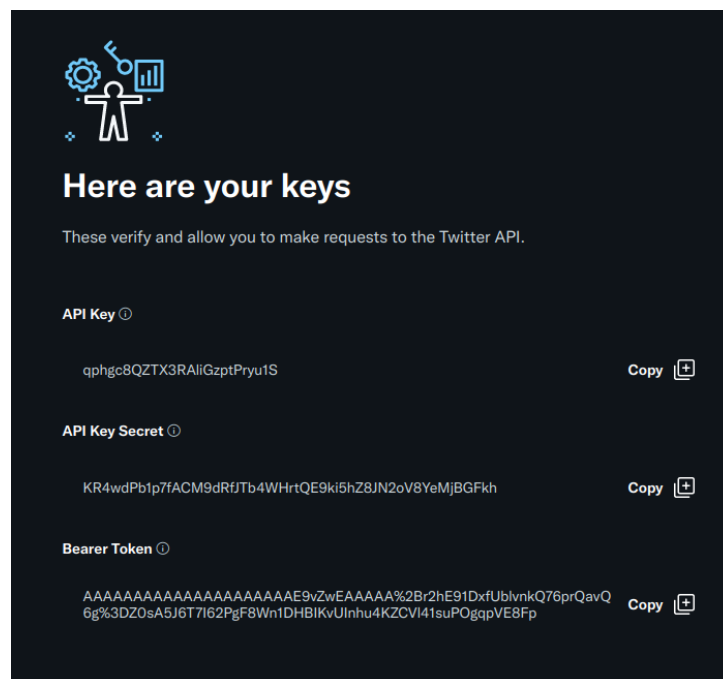
➢ You then need to generate your *Access Token* and *Access Token Secret.* Do this by first navigating to your developer dashboard (https://developer.twitter.com/en/portal/dashboard). Next, click on the key icon for the Project App you created.
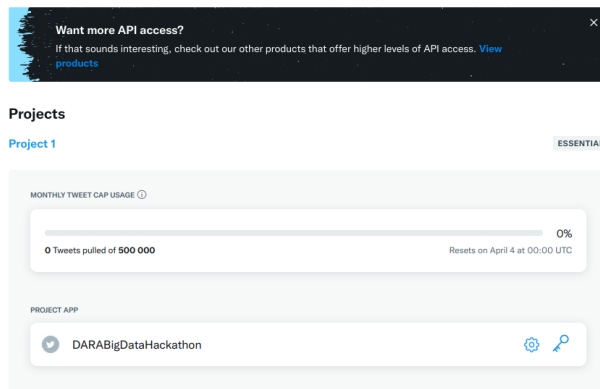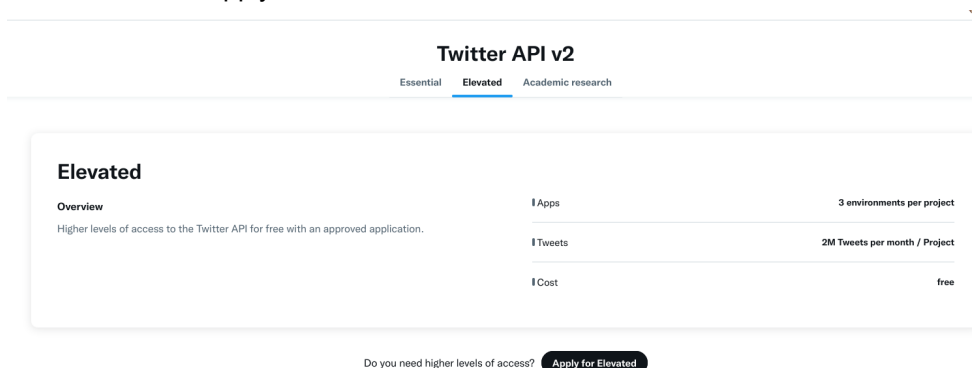

➢ Now, click 'Generate' to obtain your Acess Token and Secret. Cope and paste these somewhere convenient along with your API keys.
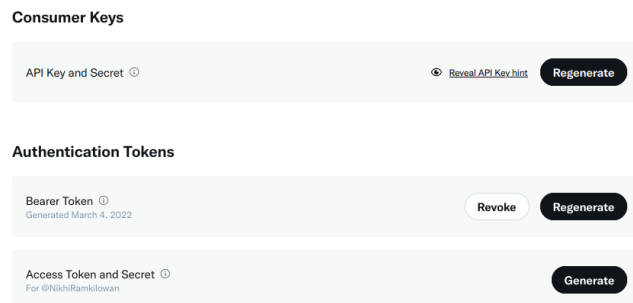
Step 3: Apply for 'Elevated' access

➢ Navigate to Products (https://developer.twitter.com/en/portal/products) and go to the 'Elevated' tab. Then select 'Apply for Elevated'.

➢ Go through the application process by first entering your coding skill level

➢ Please then state how you plan to use the Twitter API. 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 will analyse the 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."

Please describe how you will analyze Twitter data including any analysis of Tweets or Twitter users.

Please be thoughtful and thorough

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➢ You will then simply 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 Twitter?   ⊗ No

Will your product, service, or analysis make Twitter content or derived information available to a government entity?   ⊗ No

*In general, schools, college, and universities **do not** fall under this category*

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

Developer agreement & policy

Developer Agreement

Effective: March 10, 2020

This Twitter Developer Agreement (**"Agreement"**) is made between you (either an individual or an entity, referred to herein as **"you"**) and Twitter (as defined below) and governs your access to and use of the Licensed Material (as defined below).Your use of Twitter's websites, SMS, APIs, email notifications, applications, buttons, embeds, ads, and our other covered services is governed by our general Terms of Service and Privacy Policy.

PLEASE READ THE TERMS AND CONDITIONS OF THIS AGREEMENT CAREFULLY, INCLUDING ANY LINKED TERMS REFERENCED BELOW, WHICH ARE PART OF THIS LICENSE AGREEMENT. BY USING THE LICENSED MATERIAL, YOU ARE AGREEING THAT YOU HAVE READ, AND THAT YOU AGREE TO COMPLY WITH AND TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT AND ALL APPLICABLE LAWS AND REGULATIONS IN THEIR ENTIRETY WITHOUT LIMITATION OR QUALIFICATION. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, THEN YOU MAY NOT ACCESS OR OTHERWISE USE THE LICENSED MATERIAL. THIS AGREEMENT IS EFFECTIVE AS OF THE FIRST DATE THAT YOU USE THE LICENSED MATERIAL (**"EFFECTIVE**

☑ By clicking on the box, you indicate that you have read and agree to this Developer Agreement and the Twitter Developer Policy, additionally as its relates to your display of any of the Content, the Display Requirements; as it relates to your use and display of the Twitter Marks, the Twitter Brand Assets and Guidelines; and as it relates to taking automated actions on your account, the Automation Rules. These documents are available in hardcopy upon request to Twitter.