

## Projeto 1 - Conta *developer* no Twitter

Este documento detalha os passos para se criar uma conta de desenvolvedor, um app cadastrado e obter API Keys e Tokens que serão necessários para fazer o Projeto 1.

### Conta no Twitter

Primeiramente, crie uma conta no *Twitter*. Depois siga os passos a seguir para criar uma conta *Developer*.

### Conta developer

Depois, peça para ter acesso de desenvolvedor ao Twitter, o que pode ser feito na URL abaixo: <https://developer.twitter.com/en/apply-for-access> e clicando na opção *Apply for a Developer Account*

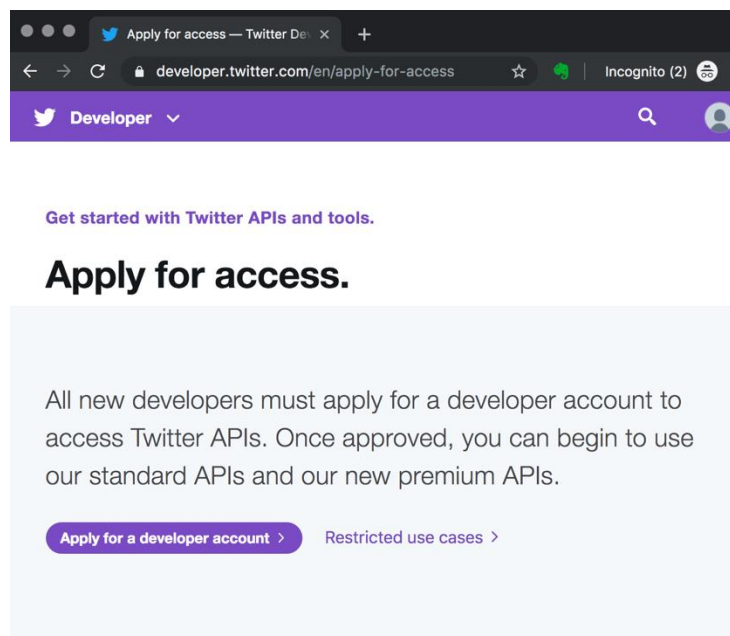


Figura 1 - requisitando acesso developer

## Versão Student

Em seguida, informe ao Twitter que você é um estudante e que vai usar a conta para fazer um projeto de curso, marcando a versão *Student*

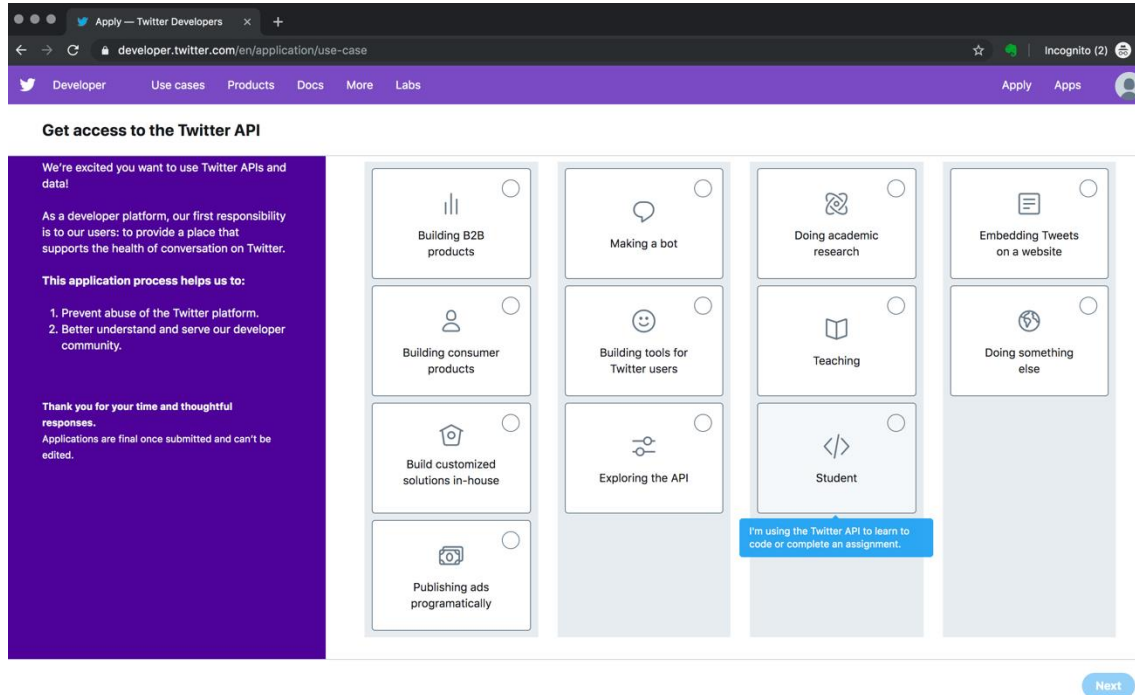


Figura 2 - Opção conta Student

## Confirmação de dados e telefone

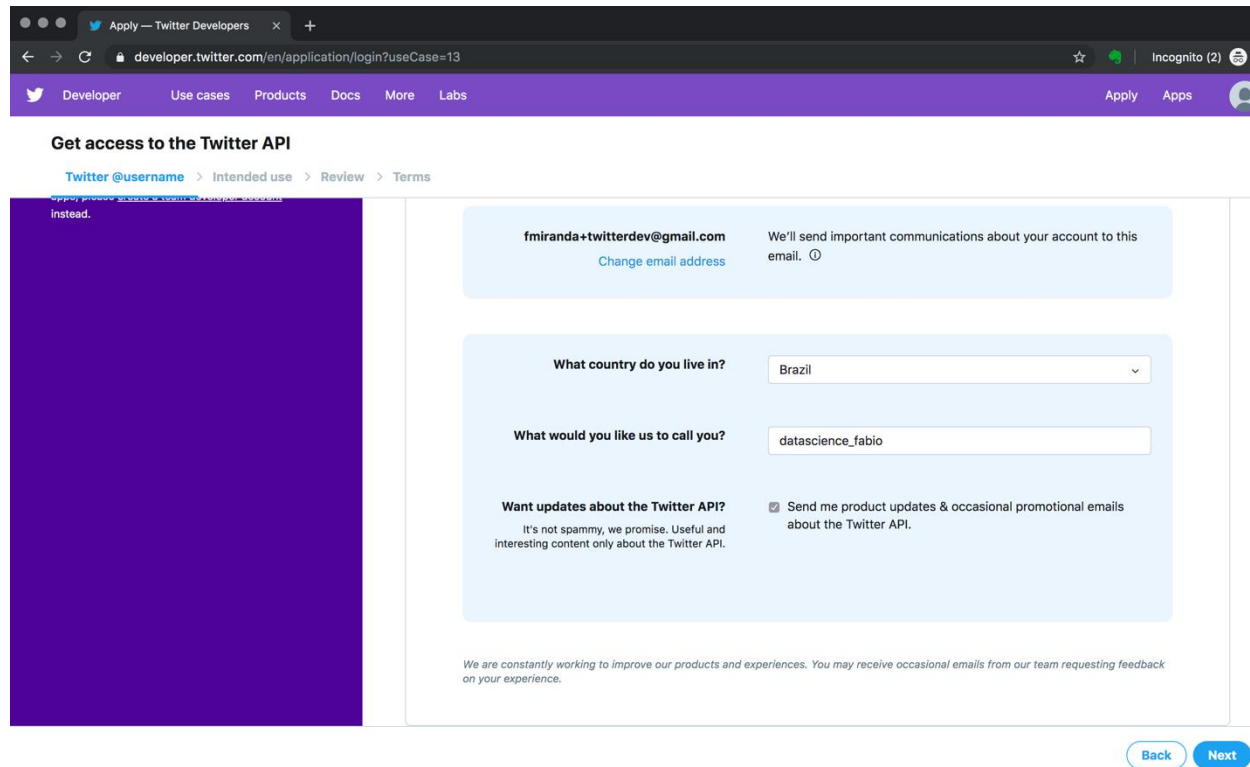
Uma conta desenvolvedor vai exigir um número de telefone válido. Se você ainda não associou sua conta a um telefone, vai precisar fazê-lo agora.

The screenshot shows the Twitter Developer account setup page in a browser. The page title is "Get access to the Twitter API". The breadcrumb navigation is "Twitter @username > Intended use > Review > Terms". The main content area is divided into two columns. The left column, with a purple background, is titled "Individual developer account" and lists typical users: Students, Individual researchers, Hobbyists, Bot creators, and Makers. It also includes a note about inviting others to share API access. The right column contains three light blue boxes. The top box shows the username "fabio\_0001" and "@0001Fabio", with a message stating that the phone number is not verified and a button to "Add a valid phone number". The middle box shows the account type "Individual developer account" and a button to "Switch to a team developer account". The bottom box shows the email "fmiranda+twitterdev@gmail.com" and a button to "Change email address". At the bottom right, there are "Back" and "Next" buttons.

Depois de inserir seu número de telefone, deverá receber uma mensagem de confirmação via SMS contendo um código.

## Questionário de intenções

O Twitter vai querer saber o que você vai querer fazer com seu aplicativo. Escolha um nome para seu perfil de desenvolvedor (não precisa ser seu username).



The screenshot shows the 'Get access to the Twitter API' page in a web browser. The browser's address bar shows 'developer.twitter.com/en/application/login?useCase=13'. The page has a purple header with navigation links: 'Developer', 'Use cases', 'Products', 'Docs', 'More', 'Labs', 'Apply', and 'Apps'. Below the header, the title 'Get access to the Twitter API' is followed by a breadcrumb trail: 'Twitter @username > Intended use > Review > Terms'. The main content area is divided into two columns. The left column is a solid purple rectangle. The right column contains a form with the following sections: 1. Email section: 'fmiranda+twitterdev@gmail.com' with a 'Change email address' link and a note: 'We'll send important communications about your account to this email.' 2. Country section: 'What country do you live in?' with a dropdown menu showing 'Brazil'. 3. Name section: 'What would you like us to call you?' with a text input field containing 'datascience\_fabio'. 4. Updates section: 'Want updates about the Twitter API?' with a sub-note 'It's not spammy, we promise. Useful and interesting content only about the Twitter API.' and a checked checkbox for 'Send me product updates & occasional promotional emails about the Twitter API.'. At the bottom of the form, there is a small disclaimer: 'We are constantly working to improve our products and experiences. You may receive occasional emails from our team requesting feedback on your experience.' At the bottom right of the page are 'Back' and 'Next' buttons.

Em seguida vamos fornecer detalhes sobre como pretendemos usar a Twitter API. Veja os detalhes a seguir.

The screenshot shows the 'Intended use' step of the Twitter Developer API application process. The browser address bar shows 'developer.twitter.com/en/application/intent'. The page has a purple header with navigation links: Developer, Use cases, Products, Docs, More, Labs, Apply, and Apps. The main heading is 'Get access to the Twitter API'. Below it, a breadcrumb trail shows 'Twitter @username > Intended use > Review > Terms'. A large purple box on the left contains the text 'Thank you for your thoughtful answers.' The main form area has a title 'Please describe how you will analyze Twitter data including any analysis of Tweets or Twitter users.' and a text input field containing the text: 'Apple' and 'Unhappy with Apple'. Below the input field, a note says 'Using the tweets I classified, I'll be able to then classify new tweets instantly given the conditional probabilities of the words they contain based on the two categories I described above'. A green checkmark and a note 'Response must be at least 100 characters' are visible. Below the text field are three toggle switches, all set to 'No': 'Will your app use Tweet, Retweet, like, follow, or Direct Message functionality?', 'Do you plan to display Tweets or aggregate data about Twitter content outside of Twitter?', and 'Will your product, service or analysis make Twitter content or derived information available to a government entity?'. At the bottom right are 'Back' and 'Next' buttons.

Twitter @username > **Intended use** > Review > Terms

Thank you for your thoughtful answers.

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

Apple and "Unhappy with Apple"

Using the tweets I classified, I'll be able to then classify new tweets instantly given the conditional probabilities of the words they contain based on the two categories I described above

Response must be at least 100 characters

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

Back Next

## How you plan to use

Insira uma descrição esclarecendo suas intenções benígnas. Se estiver sem ideias, use a que sugerimos a seguir:

I need to complete a data science homework assignment about bayesian sentiment classification of tweets.

I need the key to download a few tweets about some topics of my choice. The tweets will be used only for academic purposes.

### Describe how you will analyze

Explique o tipo de análise que fará. Sinta-se à vontade para usar o texto fornecido:

This is a coursework about sentiment classification.

First I'll choose a product or brand, for instance "Apple".

Then I'll download a reasonable amount of tweets using the API Key and the Tweepy Python API.

After those tweets are downloaded, I'll need to classify them by hand into categories, for instance "Happy with Apple" and "Unhappy with Apple"

Using the tweets I classified, I'll be able to then classify new tweets instantly given the conditional probabilities of the words they contain based on the two categories I described above

### Will your app use Tweet, Retweet, follow or DM?

O quanto mais *neutro* seu aplicativo for, e o quanto menos provável de ele interagir com pessoas reais, mais rápida se dará a liberação de sua conta *dev* pelo Twitter:

No

### Do you plan to display tweets or aggregate data about tweet content outside of twitter?

Nosso uso vai ser privado. A melhor resposta é

No

## Will your product, service or analysis make twitter content or derived information available to a government entity?

Nós não pretendemos fazer monitoramento para nenhum governo. Então *no*

No

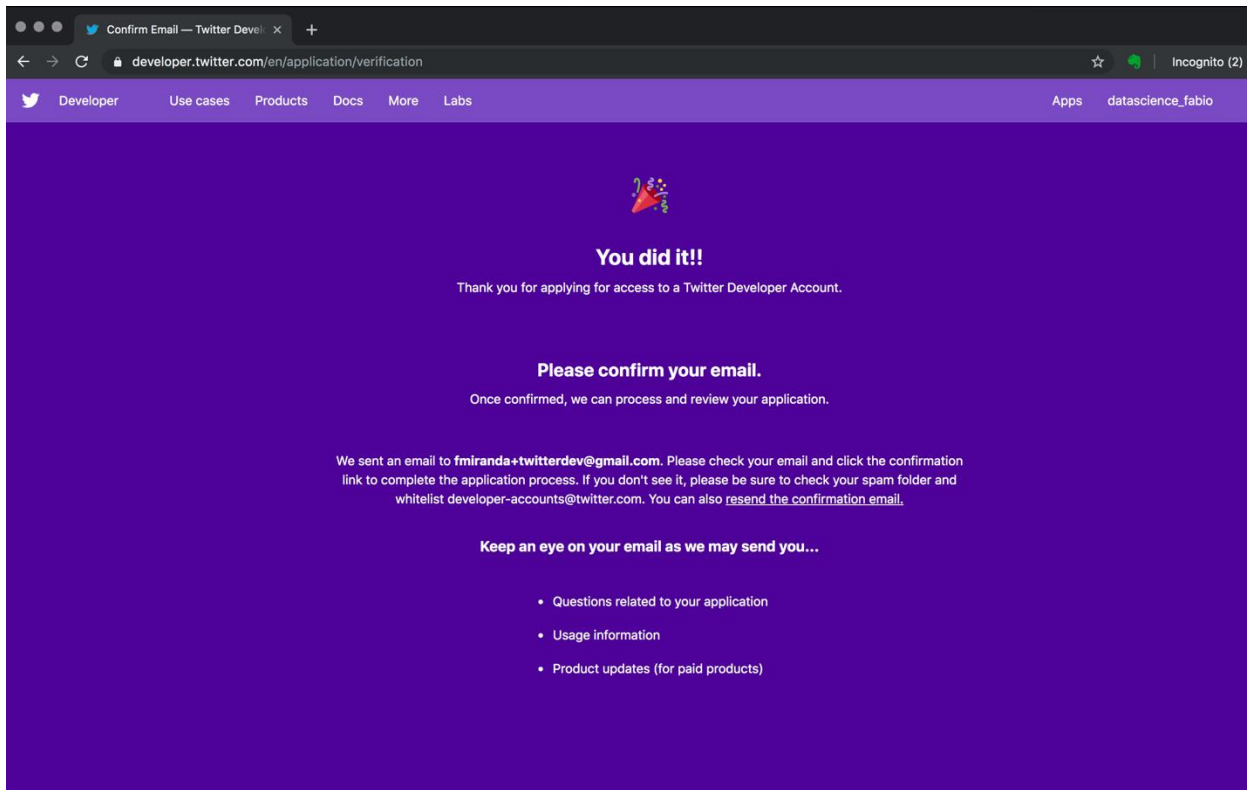
Após fornecer estas informações, confirme:

Twitter @username > Intended use > **Review** > Terms

<b>In your words</b>	I need to complete a data science homework assignment about bayesian sentiment classification of tweets. I need the key to download a few tweets about some topics of my choice. More info here: <a href="https://github.com/raulikeda/Naive-Bayes/blob/master/Projeto02.ipynb">https://github.com/raulikeda/Naive-Bayes/blob/master/Projeto02.ipynb</a>
<b>Analyze Twitter data</b>	<b>Yes</b>  This is about sentiment classification. First I'll choose a product or brand, for instance "Apple". Then I'll download a reasonable amount of tweets using the API Key and the Tweepy Python API. After those tweets are downloaded, I'll need to classify them by hand into categories, for instance "Happy with Apple" and "Unhappy with Apple". Using the tweets I classified, I'll be able to then classify new tweets instantly given the conditional probabilities of the words they contain based on the two categories I described above
<b>Tweet, Retweet or Like?</b>	No
<b>Show Tweets or Twitter information off Twitter</b>	No
<b>Providing Tweets or Twitter information to government entities</b>	No

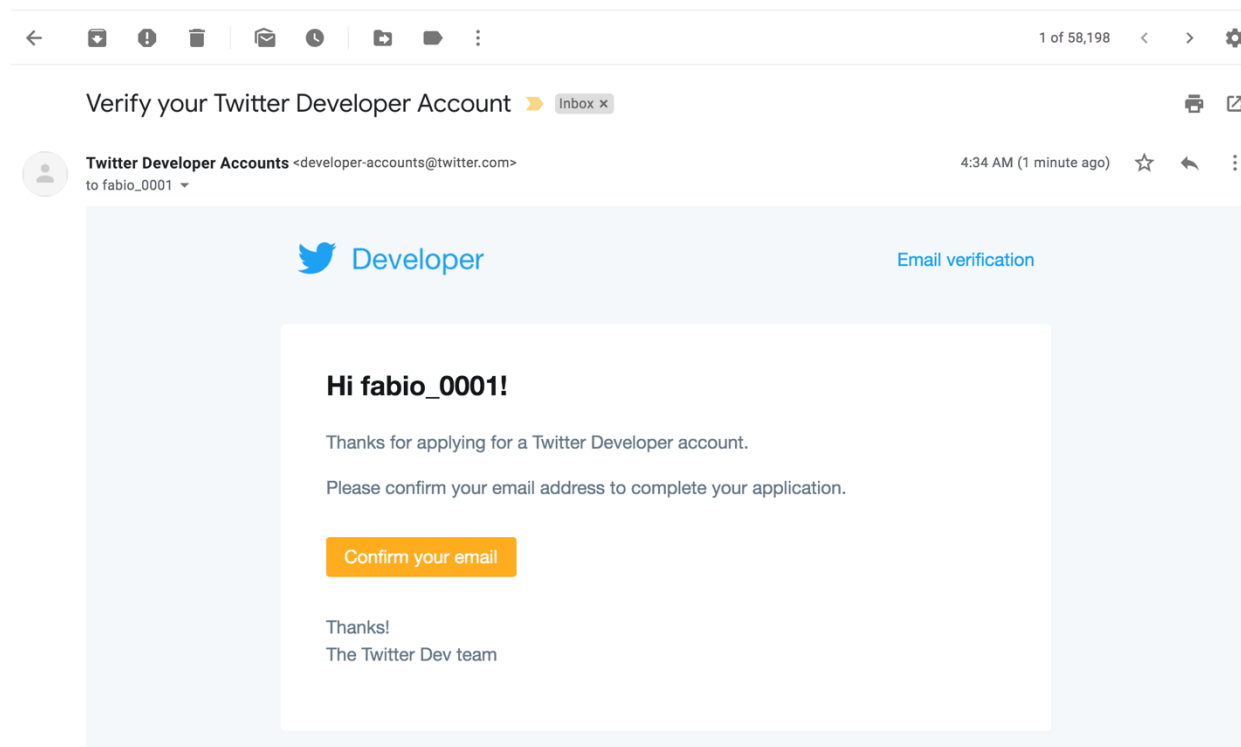
[Back](#) [Looks good!](#)

Depois você precisa encontrar o e-mail de confirmação que foi enviado a você.





Procure em sua caixa postal uma mensagem parecida com a abaixo e clique *Confirm Your Email*:



## Após confirmar sua conta de desenvolvedor, crie um app

Inicie visitando a URL: <https://developer.twitter.com/en/apps> e selecionando a opção *Create an App*.

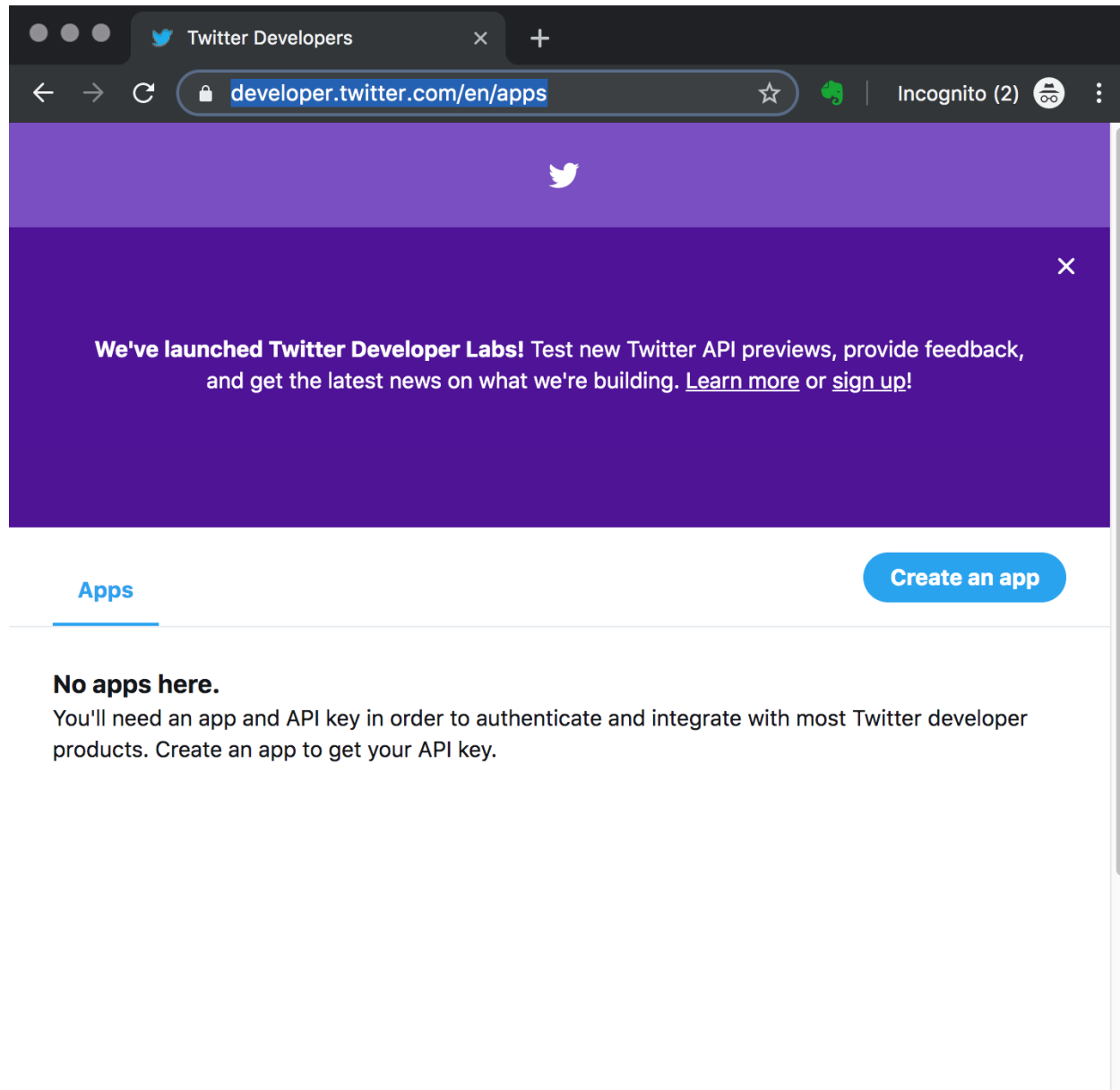


Figura 3 - Tela de criação do App

Você vai precisar preencher alguns campos:

**App name:**

Escolher o que quiser

**Application description:**

Downloads tweets related to a specific subject so that we can run an off-site bayesian sentiment analysis classification.

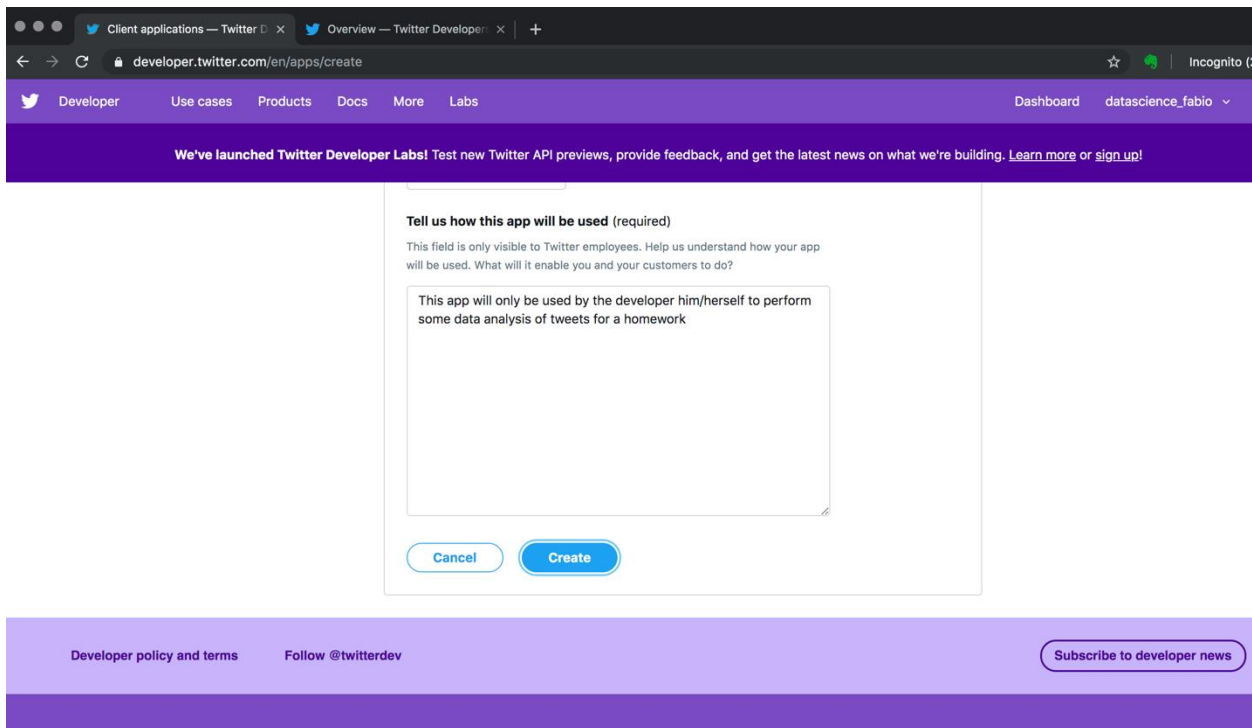
**Website URL:** Se tiver um domínio seu, fique à vontade para usar. Senão pode usar o da escola

<https://www.insper.edu.br>

**Enable Sign in:** **deixar vazio**

**Tell us how this app will be used.** Sugerimos algo na linha do texto abaixo:

This app will only be used by the developer him/herself to perform some data analysis of tweets for a homework



Client applications — Twitter × Overview — Twitter Developer × +

developer.twitter.com/en/apps/create

Developer Use cases Products Docs More Labs Dashboard datascience\_fabio

We've launched Twitter Developer Labs! Test new Twitter API previews, provide feedback, and get the latest news on what we're building. [Learn more](#) or [sign up!](#)

**Tell us how this app will be used (required)**

This field is only visible to Twitter employees. Help us understand how your app will be used. What will it enable you and your customers to do?

This app will only be used by the developer him/herself to perform some data analysis of tweets for a homework

Cancel Create

Developer policy and terms Follow @twitterdev Subscribe to developer news

*Figura 4 - Tela em que indicamos como o app vai ser usado*

## Gerar códigos de acesso

Depois visite a página do seu app em : <https://developer.twitter.com/en/apps>

Gere o *access token* e o *access token secret*

Copie o arquivo `auth.pass.template` para `auth.pass`. Anote todos os valores e coloque no arquivo `auth.pass`

**JAMAIS** compartilhe estes dados no Github, inclua o `auth.pass` no arquivo `.gitignore`

Pronto! Você deve ser capaz de executar o Jupyter Notebook fornecido