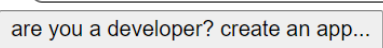


GR5067 – HW#4

Prerequisite (should be done):

1. Install [praw](#) by performing a “pip install praw” from a conda shell or from linux shell. Praw is an API that interfaces with the [Reddit API](#). The API enables a user to access both historical and real-time subreddit channel messages.
2. [Sign up](#) for a Reddit account if you don’t have one already
3. Create a [Reddit App](#)

- Click onto 
- Fill out the “Create Application” exactly as you see below:

create application

Please [read the API usage guidelines](#) before creating your application. After

name

☐ web app A web based application

☐ installed app An app intended for installation, such as on a mobile phone

☒ script Script for personal use. Will only have access to the developer's account

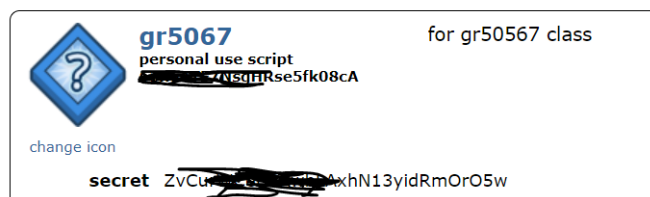
description

about url

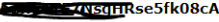
redirect uri

- Once you click the “create app” button, please scroll up and copy your “personal use script” and “secret”:


developed applications



gr5067 for gr50567 class

personal use script 

[change icon](#)

secret  AxhN13yidRmOrO5w

- Now go to the Python script called my_reddit.py and paste your “client_id”, “client_secret”, “username”, “password” into the proper fields, below:

```

15 reddit = praw.Reddit(
16     client_id="YOURS",
17     client_secret="YOURS",
18     user_agent="testscript by u/fakebot3",
19     username="YOURS",
20     password="YOURS",
21     check_for_async=False
22 )

```

Question (100 Points)

The following files exist in CourseWorks files -> hw -> hw4

my_reddit.py – top level code

vectorizer.pk – vectorizer stage

pca.pk – dimension reduction stage

my_model.pk – model that was already trained on corpuses related to ‘republican policies’ and ‘democrat policies’, each being one of two class labels

Just running *my_reddit.py* will result in real-time messages from the subreddit channel “politics” to stream in your Spyder Console.

- ➔ You need to use the functions available to you from lecture code *utils.py* and refactor anything in *my_reddit.py* and *utils.py* and classify the text located in the *tmp_df* dictionary key called “body”. You need to leverage functions from *utils.py* and replicate the following pre-processing steps (some functions will need to be slightly modified to accommodate the flow below), transformations and classifying the text in the exact order below:

clean_text ➔ *rem_sw* ➔ *my_stem* ➔ *vectorize* (*vectorizer.pk*) ➔ *pca* (*pca.pk*) ➔ *classify* (*my_model.pk*)

Your code should simply output the class label prediction and the likelihood score in real-time.