

lecture13_practice

February 20, 2024

1 Practice: Only positive news

Most of this code is copied from the positive news demo. Now, it's your job to try it out on Reddit, and see if you can make it work better.

1.1 Normal Reddit PRAW Setup

```
[16]: import praw

[17]: %run reddit_keys.py

[18]: # Give the praw code your reddit account info so
      # it can perform reddit actions
      reddit = praw.Reddit(
          username=username, password=password,
          client_id=client_id, client_secret=client_secret,
          user_agent="a custom python script for user /" + str(username)
      )
```

1.2 Load sentiment analysis code

```
[19]: import nltk
      nltk.download(["vader_lexicon"])
      from nltk.sentiment import SentimentIntensityAnalyzer
      sia = SentimentIntensityAnalyzer()
```

```
[nltk_data] Downloading package vader_lexicon to
[nltk_data] /home/jovyan/nltk_data...
[nltk_data] Package vader_lexicon is already up-to-date!
```

1.3 Code to search and display news

Now let's make code that will get submissions from the news subreddit (or from a fake_news_site), and display all of them. We will then make a modified version below to compare the results.

```
[20]: # Look up the subreddit "news", then find the "hot" list, getting up to 10
      ↪ submission
      submissions = reddit.subreddit("news").hot(limit=10)
```

```
# Turn the submission results into a Python List
submissions_list = list(submissions)

# go through each reddit submission
for submission in submissions_list:
    print(submission.title)
    print()
```

Capital One is buying Discover in a \$35.3 billion deal

Powerball: US man sues lottery after being told \$340m win is error

Russian pilot who defected found dead in Spain, says Ukraine security agency

John Oliver offers to pay Clarence Thomas \$1m a year if he resigns from supreme court

West Virginia House passes bill allowing prosecution of librarians

At least 1 dead, 5 injured in shooting at Indianapolis Waffle House

Navalny's body will not be released to family for another 14 days, Navalny spokesperson says

Prattville police arrest Montgomery officer on multiple 'swatting' charges

Scientists propose AI apocalypse kill switches

Documents reveal Abraham Lincoln pardoned Biden's great-great-grandfather

1.4 Search through news submissions and only display good news

Your job here is to edit this code (you can use either “news” or a different subreddit) to test out how well the “only show positive news” idea works. You can adjust the sentiment cutoff (e.g. it's 0 right now, but would a different number work better), you can add keywords to avoid, check the score ratio (i.e. the upvotes vs downvotes) of a submission (“upvote_ratio”), or whatever else you want to try! Try it on 1 or 2 subreddits.

```
[21]: # Look up the subreddit "news", then find the "hot" list, getting up to 10
      ↪ submission
submissions = reddit.subreddit("animals").hot(limit=10)

# Turn the submission results into a Python List
submissions_list = list(submissions)

# go through each reddit submission
```

```
for submission in submissions_list:

    #calculate sentiment
    title_sentiment = sia.polarity_scores(submission.title)["compound"]

    if submission.upvote_ratio >= 0.5:
        print(submission.title)
        print()
```

[Rules] Updated rules for /r/Animals, please read!

My sculptures that are all inspired by animals and nature

Sheep bones

Mallard Ducks Look so Gorgeous

Some animals with incredible abilities

This weeks mini paw paintings by my adorable rats!

I made Cat Clay Magnets, what do you think?

Monkey (obviously) taken by me in Botswana near Chobe River, 2016

Wonders of the Earth

[]: