Data & Society Coding Challenge

May 9, 2018

1 Context

We're interested in how YouTube influences are attacking the mainstream media. One of the most active influencers is Alex Jones, and his media network InfoWars. In this coding challenge we want

- 1. The title and statisitcs for videos uploaded by the Alex Jones Channel
- 2. Filter videos for keywords
- 3. Analysis of videos about the mainstream media.

2 Problem Set

2.1 Collecting Video Metadata

We want video titles, and viewer staistics for all the videos uploaded to the Alex Jones Channel between between January 1st, 2015 and May 4th, 2018. Save this file as video_metadata.csv.

Please take a look at the reference section for the format of the output file, and an example of accessing the YouTube Data API in Python.

Hint: Channel Video IDs/ URLs are available in "user uploads" playlists.

2.2 Filtering the Data

Below are terms our researchers identified as relevant to discourse against Mainstream Media.

Mainstream media

MSM

CNN

Mtv

buzzfeed

Nytimes

Ny times

New york times

Wapo

Washington post

Msnbc

Lamestream

propaganda

Filter out all videos that do not contain any of the keywords above, and save the output file as video_metadata_mainstream_media.csv.

2.3 Analysis of Videos about the Mainstream Media

What is a meaningful insight you can pull from analyzing any of the two datasets you collected?

3 Deliverables

Please send us a zip file containing:

- 1. CSVs from pt 1 + 2 in a directory called data
- 2. any code/notebooks in a directory called code
- 3. any additional analysis or documents in a directory called misc

4 Conclusion

You can work on this assignment using any language and non-Youtube-specific packages. We value D.R.Y., well-organized code that is explainable to non-technical team members. Please spend no more than 1.5 hours on this assignment. Also, submit all deliverables within one week.

5 References

5.1 Youtube API example in Python

Below is an example of accessing the YouTube Data V3 API using Python's Requests library. If you end up using the YT Data API, you'll need to register an API Key on Google Cloud Console.

5.2 Expected Output

We expect a csv with the following fields (as a minimum!). Please be sure to inlude the video ID as a column named video_id.

In [6]: output.head()

Out[6]:	19029 19030	video_id juv2LzTXm28 Th tmo9N7X6bYY Th	ne Alex Jones		channel_id \ UCvsye7V9psc-APX6wV1twLg UCvsye7V9psc-APX6wV1twLg	
	19029 19030	2015-01-01 01:3			video_title on More Evil Than Kim Jong-un as Pushing For Violent Revolt	\
	19029 19030	video_view_coun 1571 720	18	e_count 274.0 156.0		