

"@WashingtonBezos: Your New Favorite Twitter Bot"

11/4/21

My Project!

Overview

- My Background
- Project Background
- Project Goal
- Implementation
 - Architecture Diagram
 - Example + Code Walkthrough
- Conclusion and Future Work
- Questions

My Background

May 2019:
Graduate from
UVA with degrees
in Computer
Science and
English

2020:

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July 2019: Begin working as a Software Engineer at Brightspot in Reston, VA August 2021: Start Master's program at UC Berkeley School of Information

Project Background

bernatorial candidate and voting for rights advocate Stacey Abrams. wo (Amazon founder Jeff Bezos zor owns The Washington Post.) nat The recommendation will now open

Notice interesting patterns in text...

Sections

The Washington Post

Democracy Dies in Darkness

nearing officer Kerstin Meyers.

"Notwithstanding the Union's substantial margin of defeat, the Employer's unilateral decision to create, for all intents and purposes, an on-site collection box for NLRB ballots destroyed the laboratory conditions and justifies a second election," Meyers wrote.

(Amazon founder Jeff Bezos owns The Washington Post.)

Write code to learn more!

Project Goal

bernatorial candidate and voting for rights advocate Stacey Abrams. Wo (Amazon founder Jeff Bezos zor owns The Washington Post.) nat The recommendation will now open



Sections = The Washington Post

nearing officer Kerstin Meyers.

"Notwithstanding the Union's substantial margin of defeat, the Employer's unilateral decision to create, for all intents and purposes, an on-site collection box for NLRB ballots destroyed the laboratory conditions and justifies a second election," Meyers wrote.

(Amazon founder Jeff Bezos owns The Washington Post.)



Architecture



Cron Job

1: using a cron-job, every hour ...





2



2: invoke a Google Cloud Cloud Function (contains main.py, api keys, etc.)





3: main.pycalls the News API's /everythingendpoint to scan every *Washington Post* article from the past hour for mentions of "Bezos" -- can't actually ingest full article text w/ this API ... but you can search and get the article URL!

3

The Washington Post

4: if we find one or more mentions, use beautiful soup to scrape that article's content and regular expressions to get the disclosure



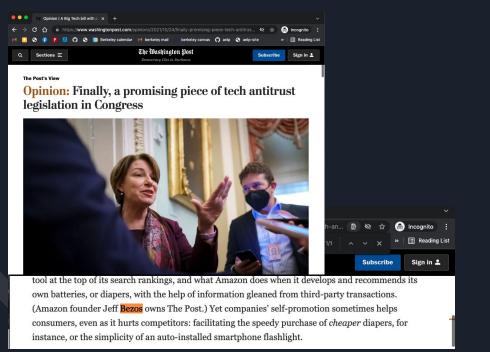


5: format and tweet out article via Twitter API!



Example: Article → Tweet!

https://www.washingtonpost.com/opinions/2021/10/24/finally-promising-piece-tech-antitrust-legislation-congress/





Code Walkthrough

Code: https://bit.ly/wapo-bot

Writeup: https://bit.ly/yext-prez

Conclusion and Future Work

Personal

- Data cleaning
- API work with Python
- Automation
- Flexible, creative problem solving

Bot

- Successfully generated 330 tweets in just over a year!
- First effort of its kind

Looking forward

- Analyze tweets what sections, when note appears in an article, count different usages
- Better error handling send me an email w/ details when regex's miss
- Get popular ...
 https://twitter.com/nyt first said has
 180k followers!

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Questions