



Hey there



XNA



ELLIE



JAMIE



JYOTHSNÄ



The Problem



The Problem

★★★★★
A. Smith
3 April 2019
Exceeded expectations and great value

★★★★★
AmazonCustomer
3 April 2019
Exceeded expectations and great value

★★★★★
B. Jones
3 April 2019
Good quality for half the price

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3 April 2019
Good quality for half the price

★★★★★
AmazonCustomer
3 April 2019
Exceeded expectations and great value

Representative of actual reviews found on a single product listing on Amazon

Which?

HOW TO SPOT FAKE NEWS



INSIDE: THE FIGHT FOR BRITAIN'S FUTURE
Wantage Constituency
OBSERVER
Wantage Constituency
and Devon by Liberal Democrat volunteers to deliver
to Caverswall, Warmsworth, Wallingford and surrounding areas.

RICHARD BENWELL SETS THE PACE

A man and environment expert is taking on Boris Johnson's Conservative candidate from London

Richard Benwell has been elected to represent Wantage in the constituency of Wantage and Lower Lambourn. He is a very popular local MP and the Conservative candidate from London.

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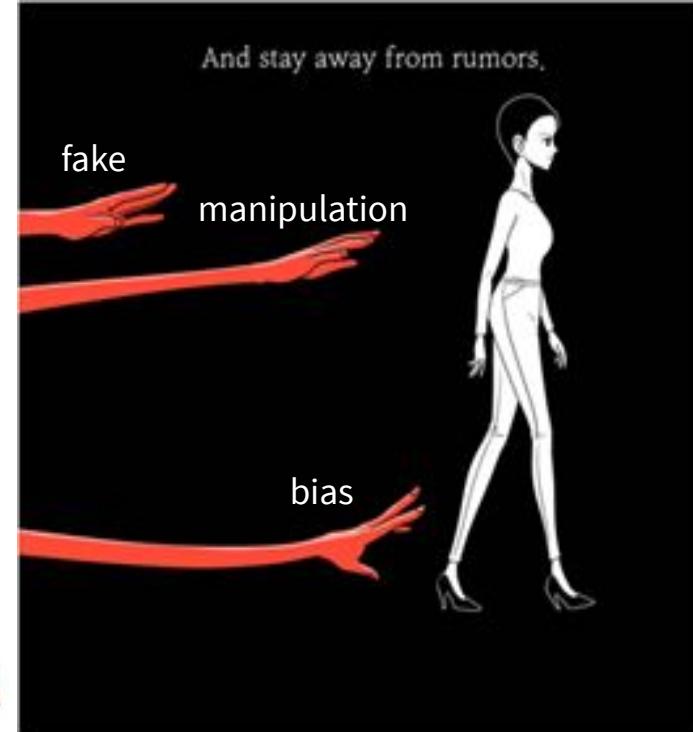
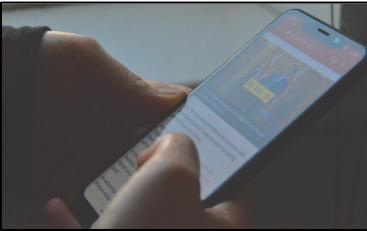
Richard Benwell has been elected to represent Wantage and Lower Lambourn. He is a very popular local MP and the Conservative candidate from London.

FREE! Newspaper covering \$6, \$10, \$11, \$17
Sheffield Hallam
News
JO SWINSON:
THE PRIME
MINISTER
BRITAIN
DESERVES

LAURA GORDON SETS THE PACE



The Goal



Target Users



BIO

Jo is an A-Level student with a Media Studies project on media polarity. It's a totally new area for her and she is unaware of how opinions and emotions can affect how news is written.

Pain Points: Lots of her course textbooks are out of date. Some were published well before Fake News was mainstream concept.

Goals: To present a balanced and informed view of media polarity using current information and gain a better understanding of how this affects her every day consumption of news.

Motivations:

- Academic
- Curiosity
- Accuracy

JO HOUSTON, 17
The curious student
Location: London



BIO

John has been retired for 18 years and has 4 grandchildren. He likes to use Facebook and share news articles he finds. He believes that the media are there to inform him and have no other motive but presenting the truth.

Pain Points: He's upset his children by sharing some questionable far right material which is masquerading as an authoritative source.

Goals: To inform himself about the way the media operates now. He would like to know if he can trust what he is reading online.

Motivations:

- Concern
- Trust
- Fear

JOHN MYERS, 78
The concerned grandparent
Location: Durham



BIO

Rachel works in the communications department of a global charity. A lot of her work involves dealing with journalists and responding to events. She's very busy and dedicated to her role.

Pain Points: She doesn't have time to collect all the data she needs and doesn't have the knowledge or resources to analyse it correctly.

Goals: She wants to gain up-to-the-minute info about media sentiment towards refugees and migrants to help co-ordinate responses. She wants to which outlets are likely to publish negative stories at the click of a button.

Motivations:

- Professional
- Lack of Time
- Facts

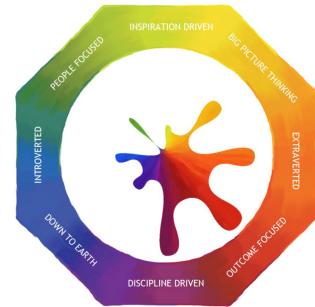
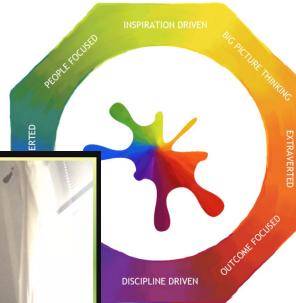
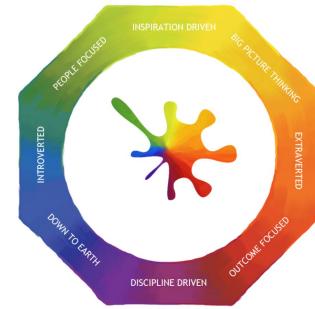
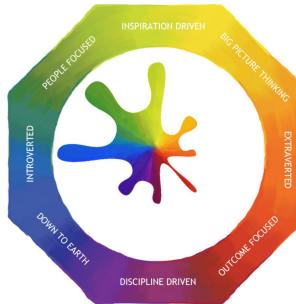
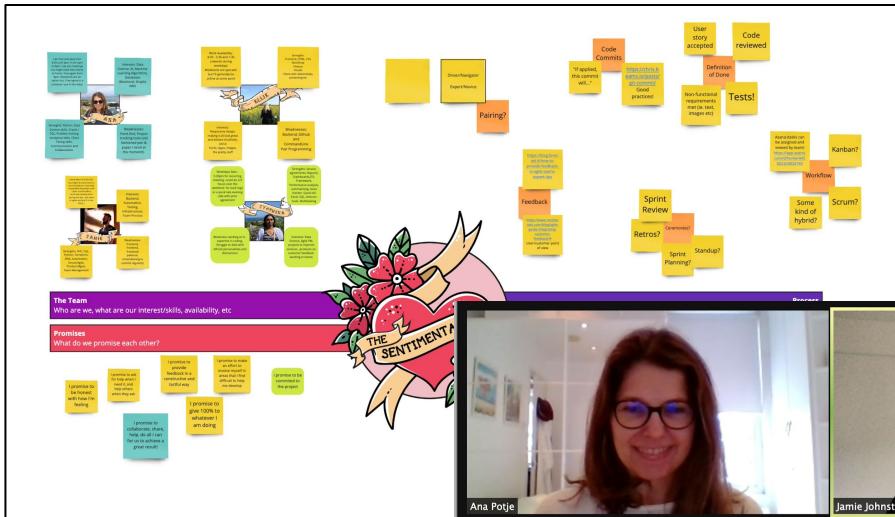
RACHEL GOLDSMITH, 43
The Public Relations Professional
Location: Oxford



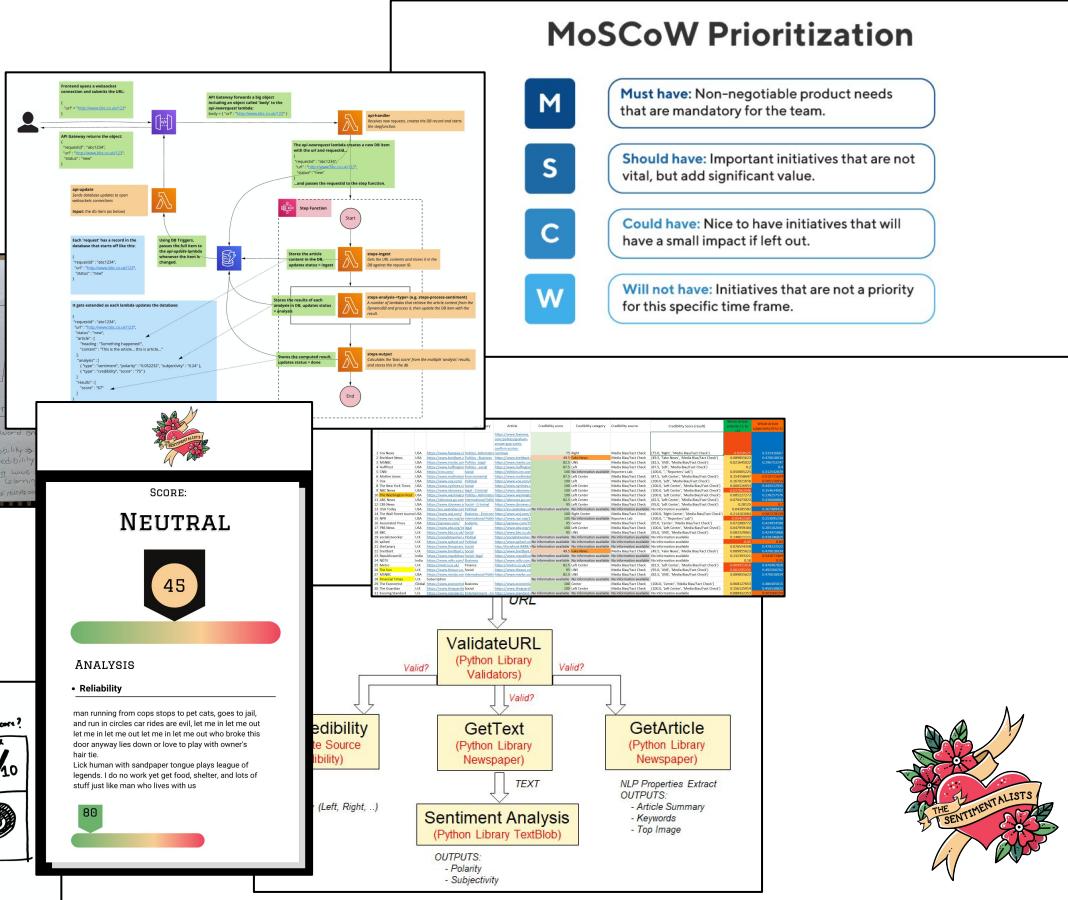
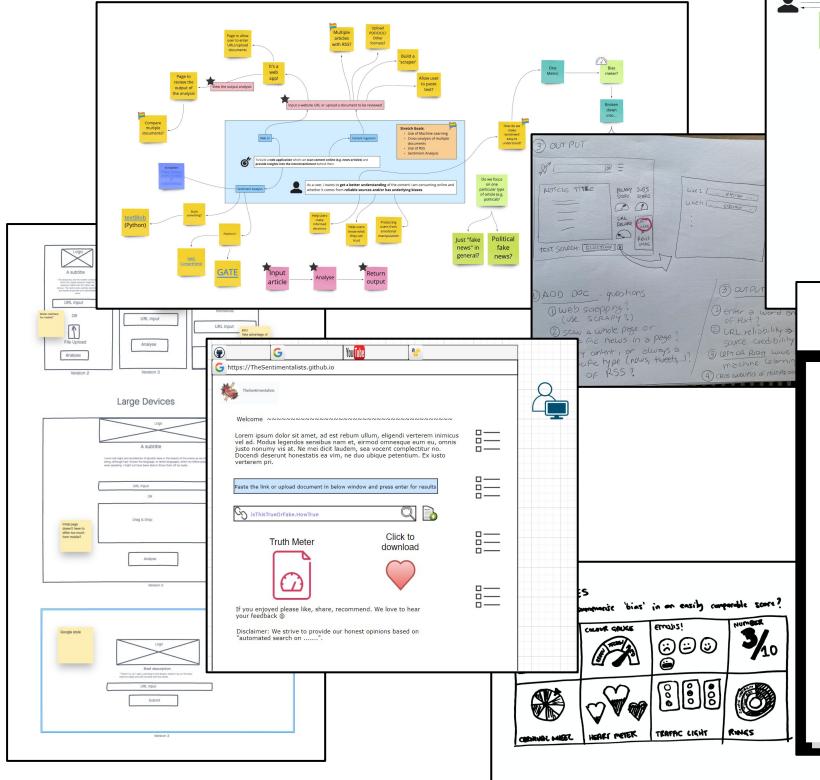
The Process



The Sentimentalists form!



Ideas and Planning



Collaboration

URL: <https://www.theguardian.com/business/2020/oct/16/uk-credit-rating-downgrade-by-moodys-amid-growth-concerns>

Website Credibility

Source: Media Bias / Fact Check

Left Center

Article Insights

Title: UK credit rating downgraded by Moody's amid growth concerns

Polarity

Subjectivity

Summary

Keywords

Dow Jones agency Moody's has downgraded Britain's credit rating, citing a decline in economic growth of the incremental pessimism and continued latent uncertainty about the government's strategy to combat the virus and manage its impact. It has also warned that the economy will shrink by 10% this year and 5% next year. The UK's real gross domestic product has dropped short of recovering to the pre-pandemic level, and the trade deficit has increased further. The government's fiscal measures have helped mitigate the impact of the virus on the economy, although it has been hit by Brexit uncertainty.

Created by @Jamie Johnstone with /poll

Simple Poll APP 1:32 PM
getsentimental.co

- thesentimentalists.co 3
@Chandra Jyothsna Guvvala, @Ellie Maidment, @Ana Potje
- isthisfakenews.co 2
@Chandra Jyothsna Guvvala, @Ellie Maidment
- truest.com
- thesentimentalists.github.io 1
@Chandra Jyothsna Guvvala
- Something else (add a comment)

Created by @Jamie Johnstone with /poll

<Polarity>

```
let componentname = "polarity"
<{componentname} />
```

{
 url = bbc.co.uk,
 result = [
 {type = "pol"},
 {type = "cre"}
]
}

Header

UK credit risk something.

http://www.bbc.co.uk/123123

The summary of the article. The summary of the article. summary of the article.

Keywords: Boris Johnson Brexit Mooney Report

Credibility

Category

The credibility of this source is OK

Polarity

The article is slightly negative.

Subjectivity

The article is very objective.

Disclaimer: This is our opinion. It's not necessarily valid.

Search or jump to... / Pulls Issues Marketplace Explore

Repositories Packages People Teams Projects Settings

Filter cards

+ Add cards Fullscreen

2 In progress

Create Results Header component

... of 3

... SentimentalistsApp-Frontend#23 opened by jsjohnstone

frontend Final Week

... SentimentalistsApp-Frontend#25 opened by jsjohnstone

frontend Final Week

76 Done

Update the homepage text

SentimentalistsApp-Frontend#31 opened by jsjohnstone

frontend Final Week

1 linked pull request

adding spacyMatcher and test_spacyMatcher

SentimentalistsApp-Backend#49 opened by ANA-POTJE

backend bug

Component

jsjohnstone reviewed 4 days ago

jsjohnstone left a comment

Member ...

Just a comment about error handling/props in the credibility component.

src/components/Results/Credibility.js (Outdated)

```
61 + let source;
62 +
63 + const handleError = () =>{
64 +   if (!isNaN(props.score)){
```

jsjohnstone 4 days ago Member

I think @ANA-POTJE could chime in here on how errors are 'created'?

I think the best way to detect an error is to test if results[0].outcome.error is defined - if it is, it means an error occurred... otherwise outcome.score, outcome.category etc should all be set.

ANA-POTJE 4 days ago Member

If the news website has no rating (nothing is returned from the Gate Source API), then we will get the following message from lambda: "error": "The credibility score was not available."

E.g. please check the URL: <https://socialistworker.co.uk/>

Fun Stuff!!



Continual Improvement

FunRetro Sort: votes Layout III

Sentimentalists Sprint 2 How did we feel about the sprint?

Liked	Learned	Lacked	Longed For	Actions
Having people with lots of different experience and views + 1 0 0	No man is an island, let go and delegate + 1 0 0	Structure around our 9am meetings: are they stand-ups? Or should we just always do 40 minutes and set an agenda? Daily stand ups can go off onto tangents + 0 0 0	I am not very sure about the milestone agreed by the group, still want to discuss it. More open mindedness when it comes to generating an over all score for the product + 0 0 0	The team to post their entire lumina profiles in Slack, and everyone to take some time read each others Ana and Ellie to arrange a whole team meeting to deep-dive into the 'bias score' calculation + 0 0 0
The project brief and direction + 1 0 0	share and learn from the team + 1 0 0			
Ellie's mastery of grids and mockups, giving us real direction to what we are building + 1 0 0	to ask for support + 0 0 0	I think we should make time and talk about our Lumina profiles That it's ok to not know everything because nobody does + 0 0 0		
to be able to share frank thoughts in tough situations + 1 0 0	Lot's about step functions Working to entire solution + 0 0 0			

19/10/2020 FunRetro - Sentimentalists Retro 16/10/20

FunRetro Sort: order Layout III

Sentimentalists Retro 16/10/20 Set the context of the retrospective here...

Liked	Learned	Lacked	Longed For
That we demo'd our POC! Presenting an app in our 3rd sprint review + 1 0 0	That serverless is easy Pairing on front end/back end Cloud - AWS - Terraform, massive achievement + 0 0 0	need more pairing exercise Pairing on front end/back end + 6 0 0	some breathing time, at times + 1 0 0
We've almost got a viable product! that there is an end to end solution + 0 0 0	little bit of React + 0 0 0	Clarity of what each other is working on Communication could have been better. + 5 0 0	Earlier preparation of the sprint review plan Goals for Next Sprint + 0 4 0
The feedback we received so far + 0 0 0	More about APIs and Cloud than I ever would + 0 0 0	went bit too fast + 0 0 0	I wish I could have learned React during Heather classes Need to learn React, + 0 4 1

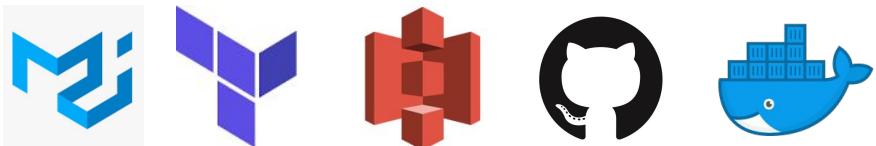
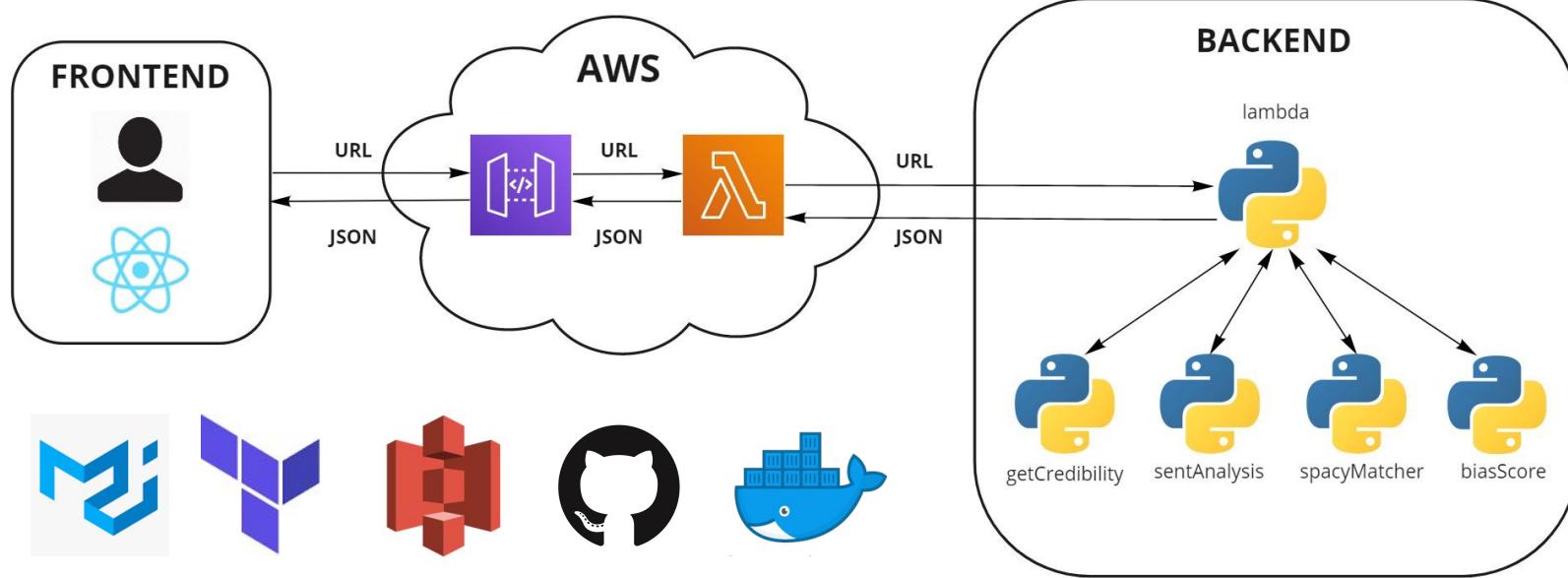


The Solution



DEMO

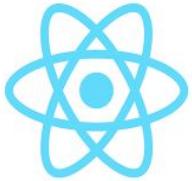
Architecture Overview



miro



User Interface



THE SENTIMENTALISTS • 2020

ANALYSING MEDIA SENTIMENT SINCE 2020

CONVERGING OPINIONATED OPINIONS...

ANALYSE

https://www.bbc.co.uk/news/uk-54673558

Keywords: Close, Terms, Starting, Schools, Groups, Sixth, Reducing, Transmit, Covid19, Target, Older, Need, Wants, Short, Scientist, Teenagers

TRUST SCORE



THE SENTIMENTALISTS • 2020

ANALYSING MEDIA SENTIMENT SINCE 2020

CREDIBILITY ?

Category: Left Center

Source: Media Bias/Fact Check

What? This scores provides an indication of the credibility of the article and the website it appears on.

Why? A credible source is more likely to be accurate and unbiased.

Category indicator shows whether the outlet may be political.

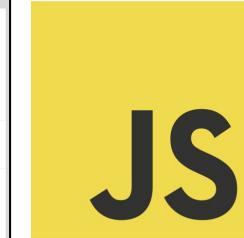
ANALYSING MEDIA SENTIMENT SINCE 2020

Covid-19: Schools may need to close to some year groups, scientist warns

https://www.bbc.co.uk/news/uk-54673558

Keywords: Close, Terms, Starting, Schools, Groups, Sixth, Reducing, Transmit, Covid19, Target, Older, Need, Wants, Short, Scientist, Teenagers

TRUST SCORE

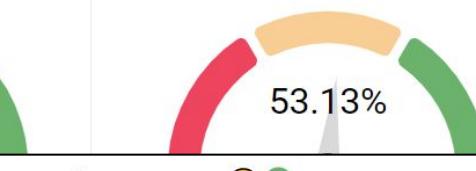


User Experience

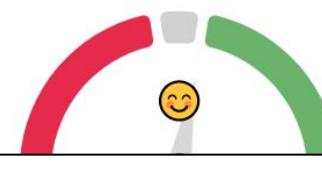
TRUST INDICATOR 😊 ?



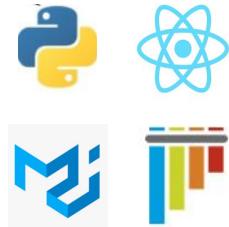
CREDIBILITY ?



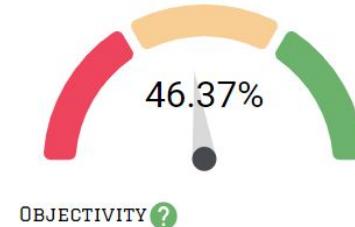
53.13%



TRUST INDICATOR 😊 ?



CREDIBILITY ?



OBJECTIVITY ?

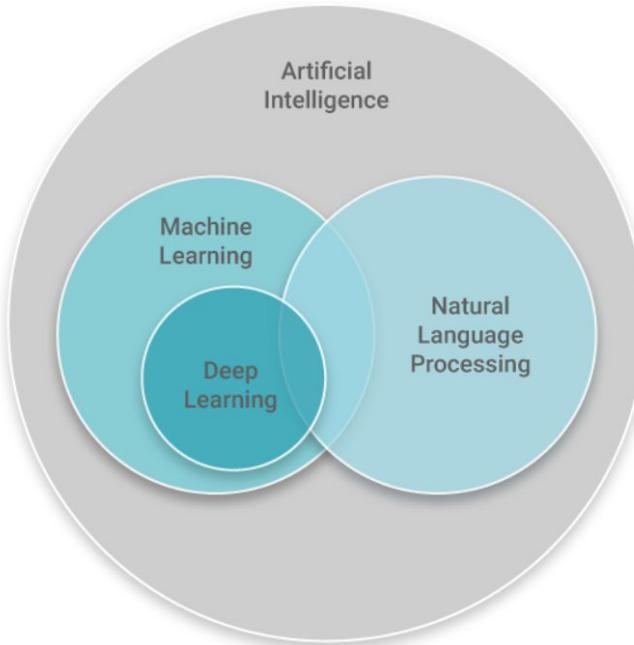


POLARITY ?

```
#####
# This program loops over credibility , subjectivity and polarity
# over a list of news paper articles
## Author: The Sentimentalists / G C Jyothsna
## Date: 27/07/2020
#####
# Importing required libraries
def sentimentAnalysis(url):
    From Textblob Import TextBlob
    url = "https://"+url
    text(url)
    blob = Textblob(text)
    sentiment(blob)
    #####
    # Extracting the text
    # Textblob(text)
    # sentiment(blob)
    # monial;
    #####
    # www.com/politics/graham-senate-gop-votes-confirmed-scouts-nominee (75.0, 'Right', 'Media Bias/Fact Check')
    # start.com/tech/2020/09/22/deleted-bombshell-book-exposing-big-tech-released-today/ (49.5, 'Fake News', 'Media B
    # .com/morning-joe/watch/we-could-have-done-more-says-mueller-prosecutor-in-new-book-92399845794 (82.5, 'UNS'
    # Check')
```



Natural Language Processing



NLP Libraries & APIs



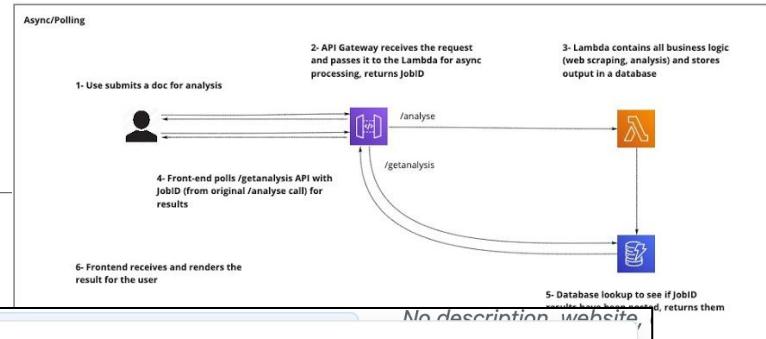
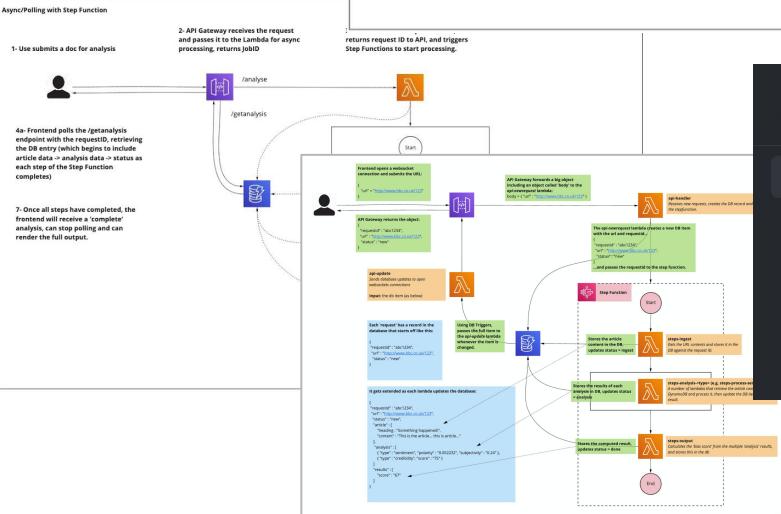
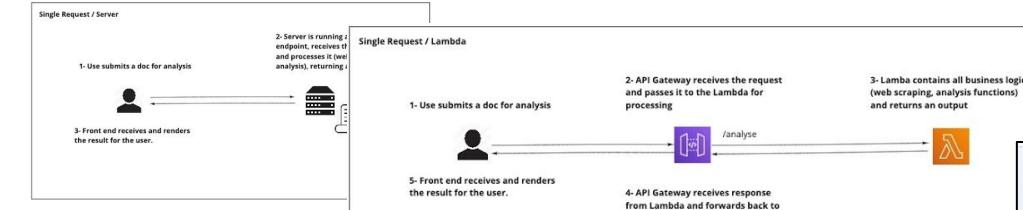
Newspaper3k



spaCy



Infrastructure



Some checks were not successful
1 successful and 1 failing checks

Details	Details
✓ Deploy to AWS / Build-Test (push)	✗ Deploy to AWS / Deploy (push) — Deploy

Build-Test
succeeded 2 days ago in 6m 32s

Run Tests

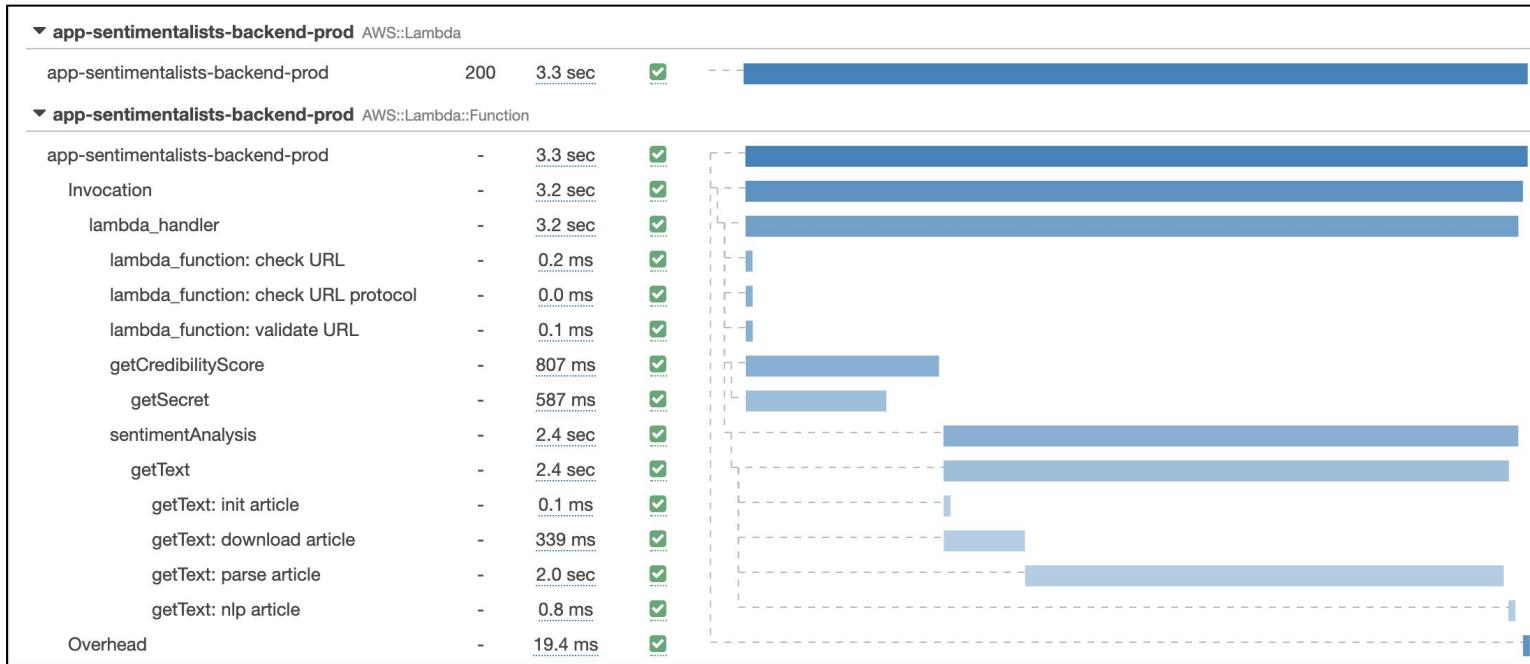
- ```

30
31 ..tests/test_checkCredibilityScore.py ...
32 ..tests/test_getBiasScore.py ...
33 ..tests/test_getSecret.py ...
34 ..tests/test_getText.py
35 ..tests/test_lambda_handler.py
36 ..tests/test_sentimentAnalysis.py
37 ..tests/test_spacyMatcher.py

```



# Infrastructure



# Future Opportunities

Technical:



Tech For Good:



# Final Thoughts

[thesentimentalists.github.io](https://thesentimentalists.github.io)





# Questions?

[thesentimentalists.github.io](https://thesentimentalists.github.io)

