

Objective

Combine and summarize news articles across the political spectrum - to display what's commonly being said.



Trump Picks Heather Nauert As Next UN Ambassador

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Trump called his U.N. pick very talented, very smart and very quick.....
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"She's very talented, very smart, very quick," the president told.....

Trump Picks Heather Nauert As Next UN Ambassador

Nauert was criticized for Instagram photo ... her smiling in ... Riyadh shortly after ... disappearance of ...

Jamal Khashoggi

when President Trump moved the US

Embassy from Tel Aviv to Jerusalem,

... Nauert faced heat ... straight on
as State Department spokesman

Trump Picks Heather Nauert As Next UN Ambassador

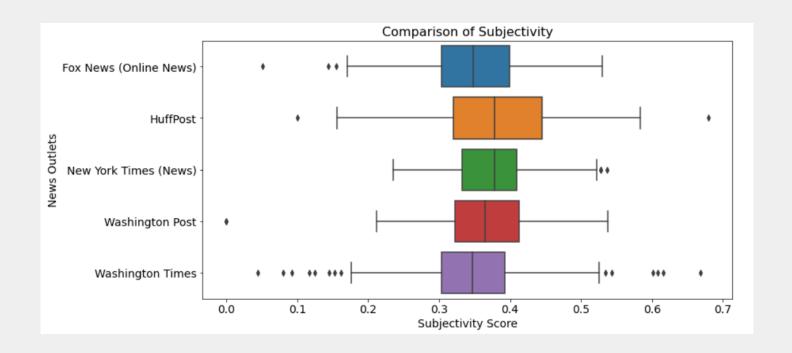
| | Subjectivity |
|-----------|--------------|
| Huff Post | 0.33 |
| Fox News | 0.43 |

Trump Picks Heather Nauert As Next UN Ambassador

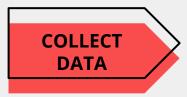
| | Subjectivity |
|-----------|--------------|
| Huff Post | 0.33 |
| Fox News | 0.43 |

Pennsylvania Court Rules Gerrymandered Maps Unconstitutional

| | Subjectivity |
|------------|--------------|
| Huff Post | 0.44 |
| Wash Times | 0.31 |

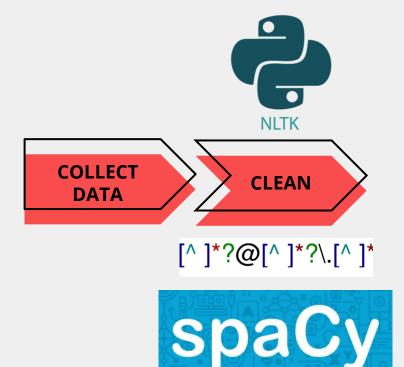




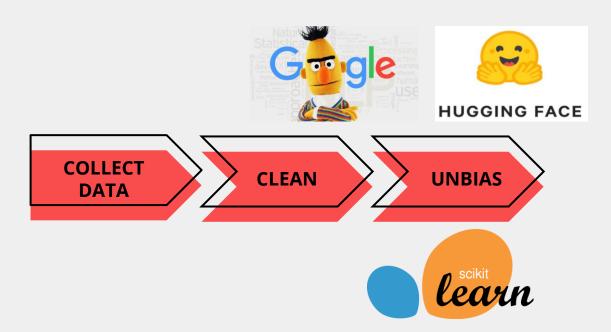




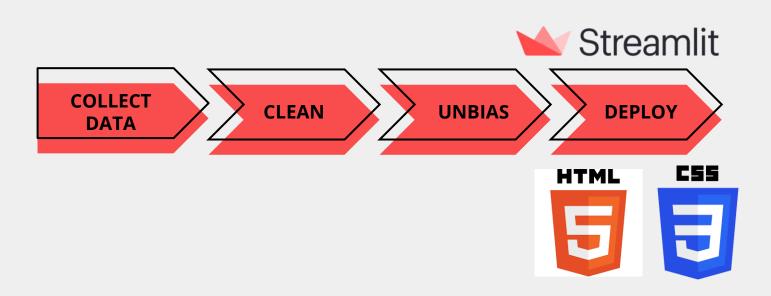


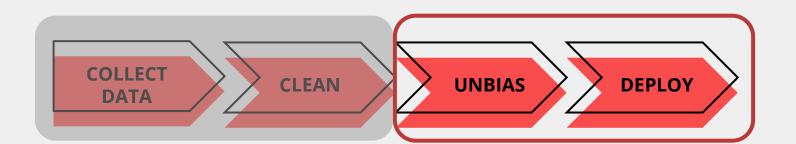












Unbiasing

Sentences to embeddings

Found most similar sentence pairs using cosine similarity



Unbiasing

1. Sentences to embeddings

"This will be one of the first opportunities for Dr. Fauci to tell the American people the unvarnished truth without the president lurking over his shoulder. Dr. Fauci, let it rip," he added.

Sentence Transformers Using Roberta Large model

 $[0.233, 0.102, \dots... 0.455] \rightarrow 1024$ Features

of Sentences = # of embedding rows

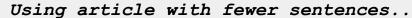


Unbiasing

2. Comparison



The New York Times





Unbiasing -

3. Custom Heuristics

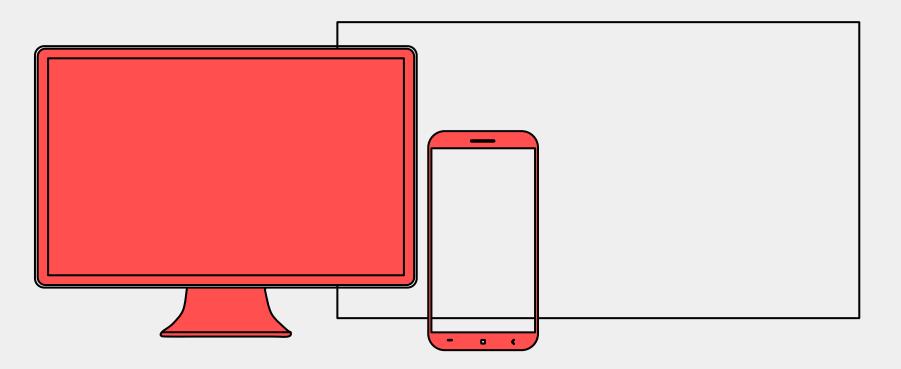
```
Cosine Similarity > 0.55

Summary =
half of smaller article's length or
max of 10 sentences
```

Use longer sentences in each pair.

Live App





Future Work



- Lighter pre-trained model
- Use Transfer learning to fine-tune model further
- Expand to compare > 2 news sources

Thank You

Do you have any questions?

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