

Headline Satire Detector

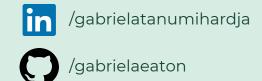


Classifying news articles through headline analysis using NLP and deep learning methods









All Generalizations are Wrong, Including This One...

- Satire & Natural Language Processing:
 - Can ML models detect the subtle nuances?
 - Satire can be difficult to differentiate by headlines



Can You Tell?

Sample headlines:

- The Lamp Was a Clue to a Life I Didn't Know My Mother Had
- DNC Pours All Campaign Funding Into New York, California
 To Win Popular Vote By Even Greater Margin Than 2016



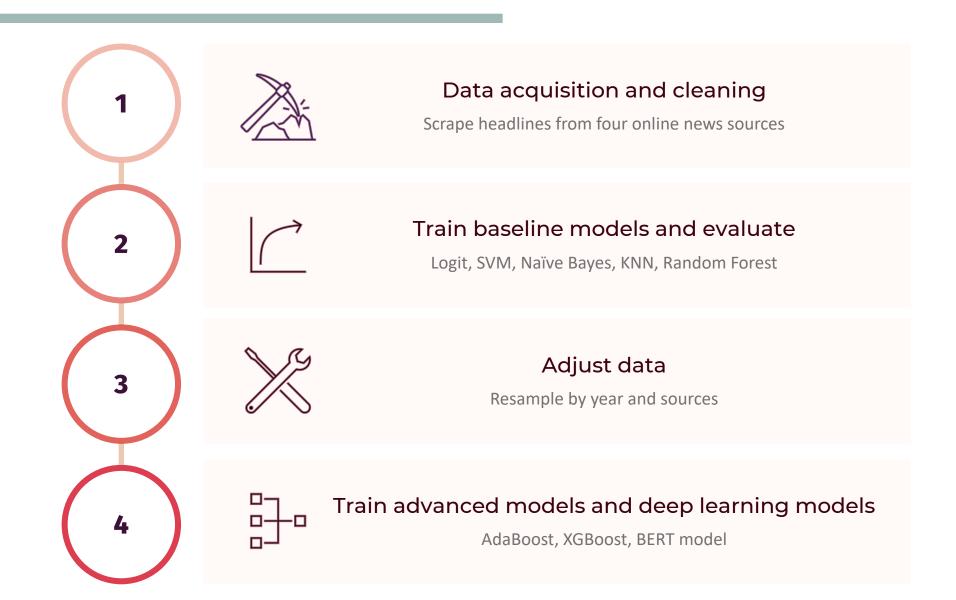
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Project Framework

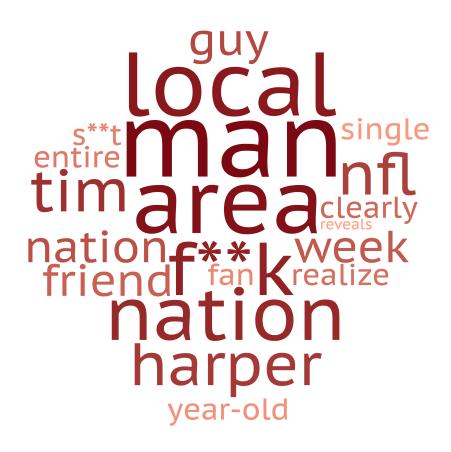


Results + Predicting Sources

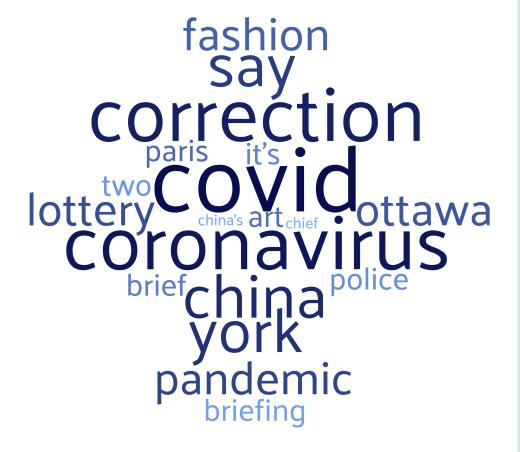
- Validation accuracies ranging from 63% 90%
 - **BERT model -** 90% validation accuracy
- Predicting source of article:
 - BERT model 80% validation accuracy
 - The Beaverton headlines often misclassified as belonging to the Onion (20%)

Predictive Words

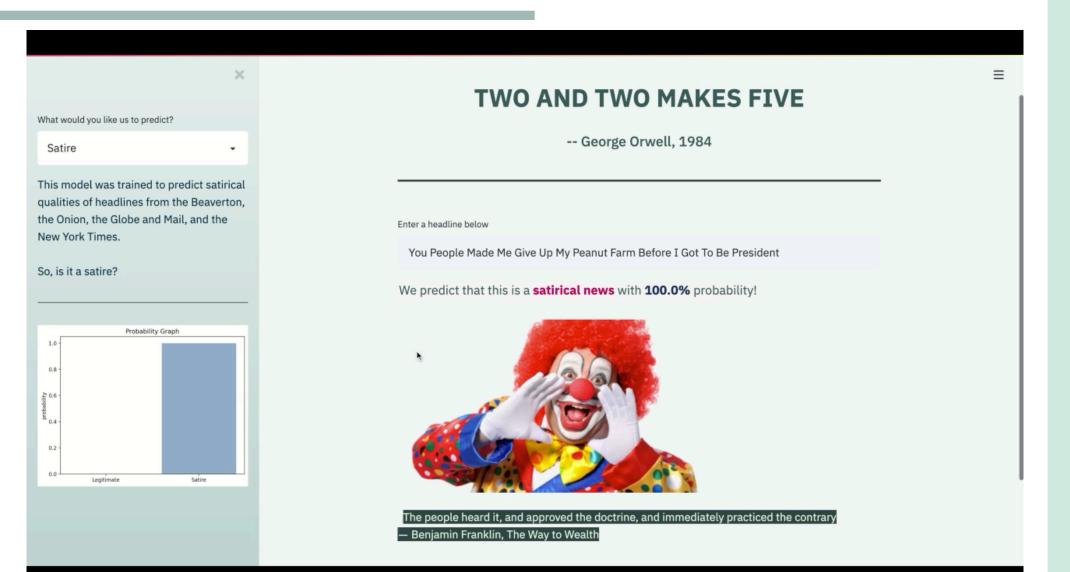
Satire



Legitimate



Serve Up! What's Next?



Thank you!



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