

News Article Headlines Sentiment Analysis

By Ethan Kunin

Purpose

- □Elevate transparency of public opinion
- ☐ Home in on which topics are influencing your brand in a positive or negative direction
- ☐ Track how opinion is changing over time and course correct if necessary

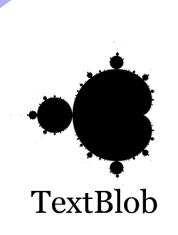
Business Case

- ☐ Understand how the media perceives your brand
- ☐ Make informed decisions on which campaigns are resonating the most with customers
- □In an era where public image needs to be pristine, ensure visibility to gain insights

The Model Used to Extract Sentiment

- □ Achieved 60% accuracy on a multiclass label problem using a rules-based approach
- □ Combination of unsupervised machine learning models: VADER & TextBlob
 - VADER: Trained on social and returns a polarity and subjectivity score
 - ☐ TextBlob: Trained on IMDB movie review corpus





What Can We Learn From This?

- ☐ How customers are feeling towards the brand
- ■When sentiment is changing
- ☐What are the most polarizing articles that may need to be addressed





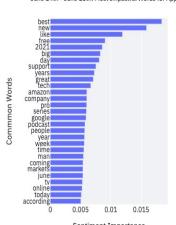
Dashboard Capabilities

- ☐ Track changes over time
- ☐ Analyze which words have the most impact on sentiment
- ☐ Filter between positive, neutral, and negative news articles and see which words are appearing most often

Apple Sentiment Graph



June 14th - June 18th: Most Impactful Words for Apple



Select a Sentiment

Positive

Dagsker OS get say by struct year week podcast 10 s get say by product year of fer year of year

Conclusion

- Sentiment Analysis is still nascent because computers are only recently becoming adept at handling unstructured data
- ☐ Massive amounts of unstructured data that can be harnessed to produce actional insights
- ☐ Brand integrity needs to be at an all time high

Further Work

- □Topic Modeling with Latent Dirichlet
 - Allocation
- Livestream news articles using a different API
- □Integrate social media listening

Are there any further questions or comments?

Thank you for listening

