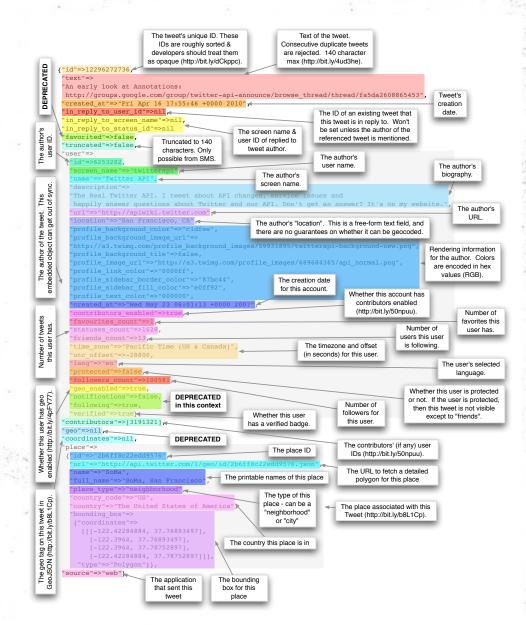
Analyzing Twitter Climate Change Conversations:

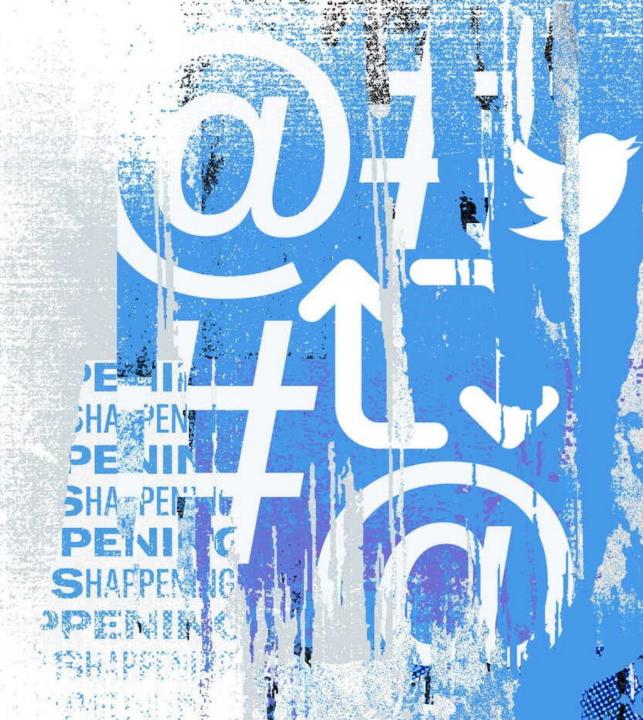
Using Data Engineering, NLP, & Topic Modeling to uncover Global Warming Topics

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What's in a Tweet?





Data Features

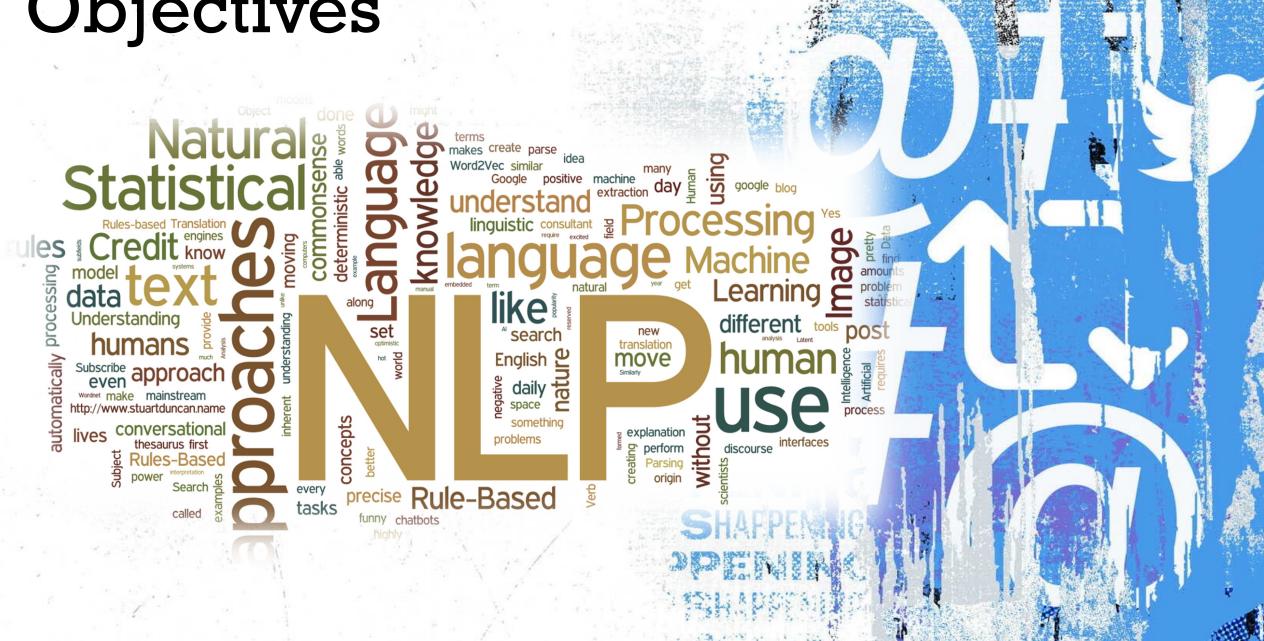
- Tweet Unique ID
- Tweet Location

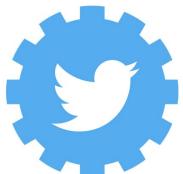
Tweet Text

- Twitter Username
- Retweet Count
- Follower Count
- Favorites Count
- Hashtags
- Mentions
- Etc.

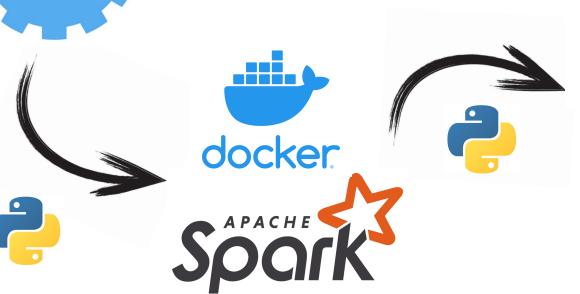


Objectives





Methodology





Text Processing & Dimensionality Reduction

150,000+ words

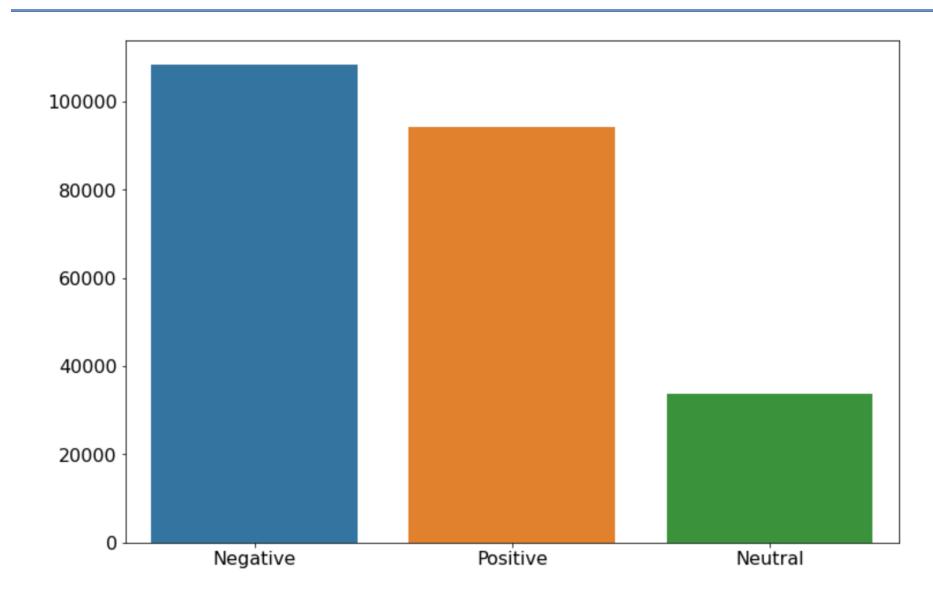


4 Topics

543 words

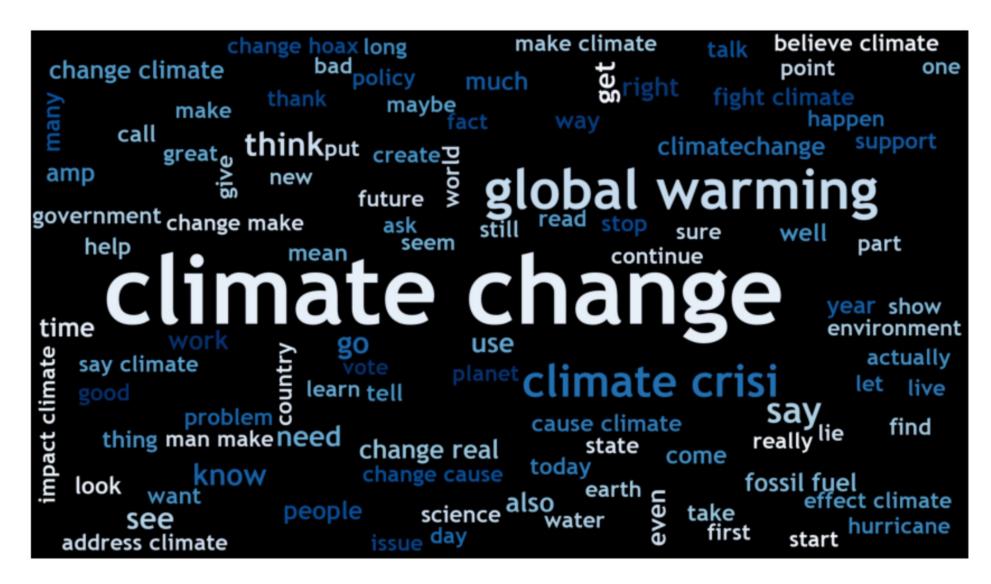


Sentiment Analysis



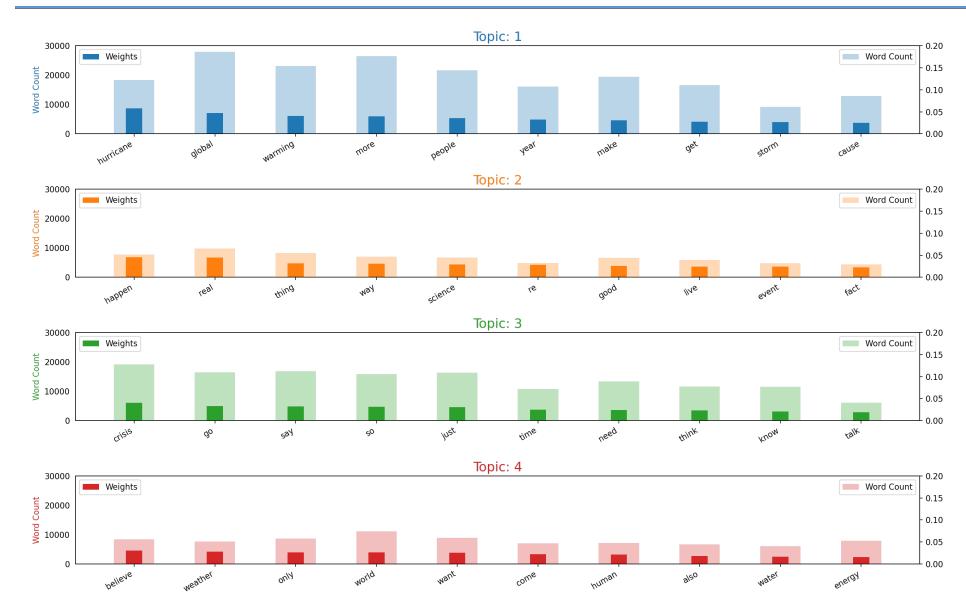


100 Most Common Words





Findings: Topics





Conclusion

Topic 1:

caused by people scientifically real and results in "natural disasters"

Topic 2:

Global warming is Climate Change is and is happening

Topic 3:

Although Climate Change is a crisis, Change is a more time and discussion is required:

Topic 4: Possibly, Climate believe to be caused by natural

world weather:

Key Topic Terms

- Hurricane
- Global Warming
- People
- Cause

- Happen
- Real
- Science
- Fact

- Crisis
- Need
- Time
- Think

- Believe
- Weather
- World
- Human

Potential Future Work

Further Data Engineering:

- AWS
- MongoDB
- · Streamlit and/or Heroku

Further Analysis:

- LSA & NMF
- Social Network Analysis
- Gelphi + NetworkX



Thank you!



metis 2022 oct

