

Climate Change Twitter Sentiment Analysis

Pro-Clime Solutions



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Our Company

About Us

New leading environmental technology company founded in 2022.

We are a proudly African company.

Expertise in Data Science and Environmental Research.

We are solution driven and motivated by change.



Our Key Values







Collaboration

Innovation

Efficiency

Meet the Team



Ereshia GabierTechnical Lead Manager



Ikaneng Jack Malapile Lead Data Scientist



Thandolwethu MadondoSenior Data Scientist



Chukwunonso Azih ML Engineer



Ololade Ogunleye Senior Business Architect



Project Overview

Climate Change

Where we are today.

What the future looks like.

Paris Climate Accords was established in 2015.



Climate Change Twitter Sentiment Analysis

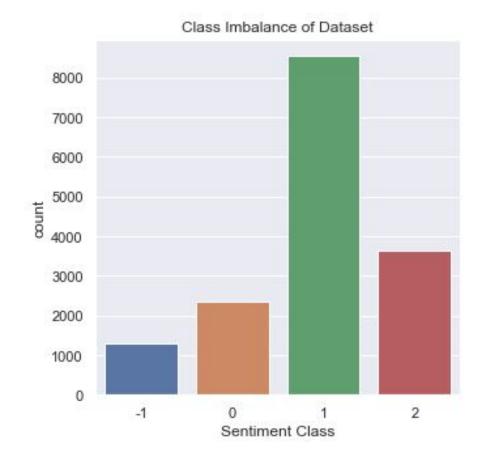
The goal of this project is to build a model that will effectively categorise whether a person believes in climate change or not.





Exploratory Data Analysis

Overall positive sentiment towards climate change



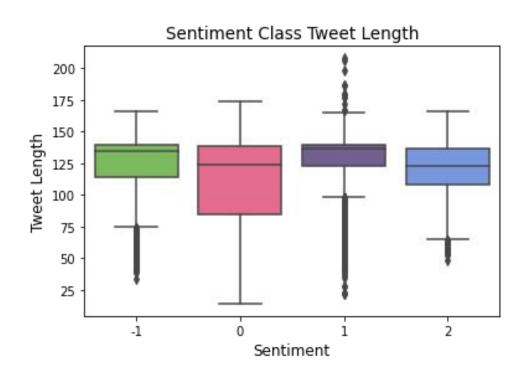
-1: Negative

o: Neutral

1: Positive

2: News

Outliers represent tweet lengths that are vastly different from majority tweets.



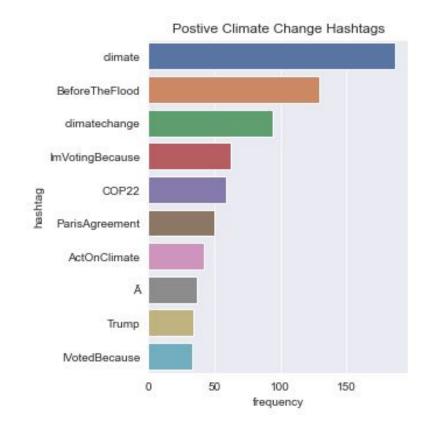
-1: Negative

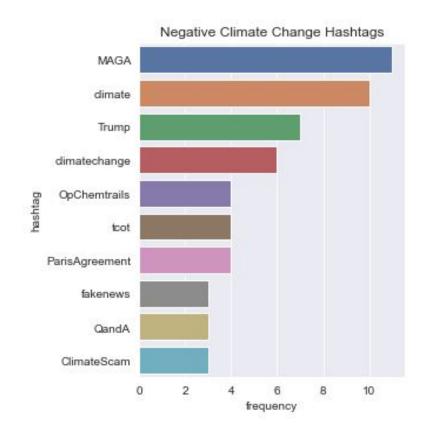
o: Neutral

1: Positive

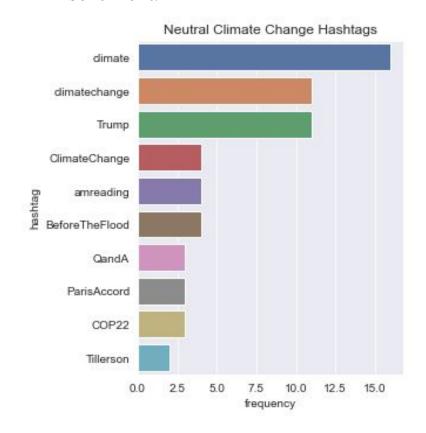
2: News

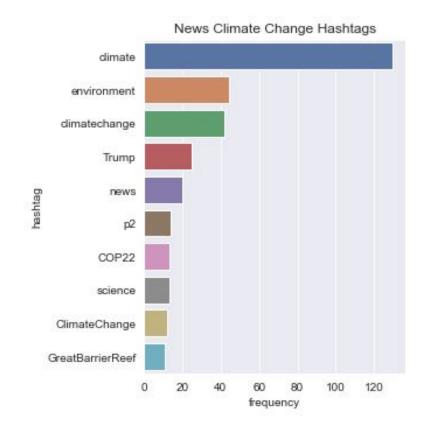
Frequent Hashtags for each Sentiment.

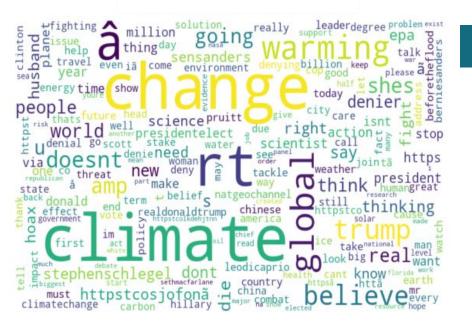




Frequent Hashtags for each Sentiment.

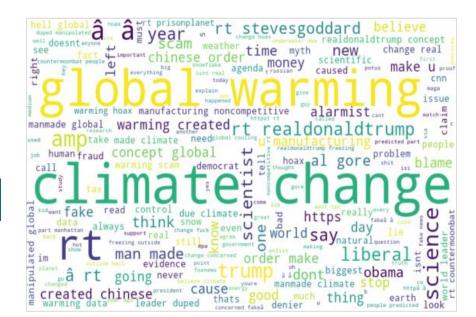


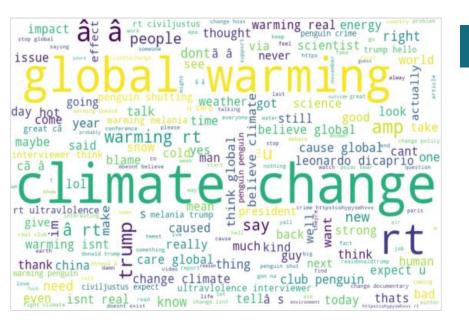




Negative Sentiment

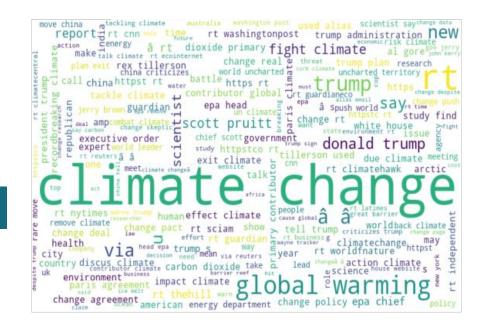
Positive Sentiment





News Sentiment

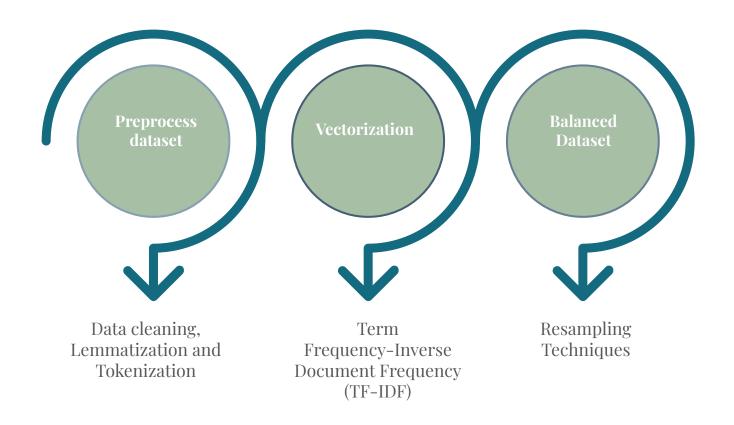
Neutral Sentiment





Data Preprocessing/ Feature Engineering

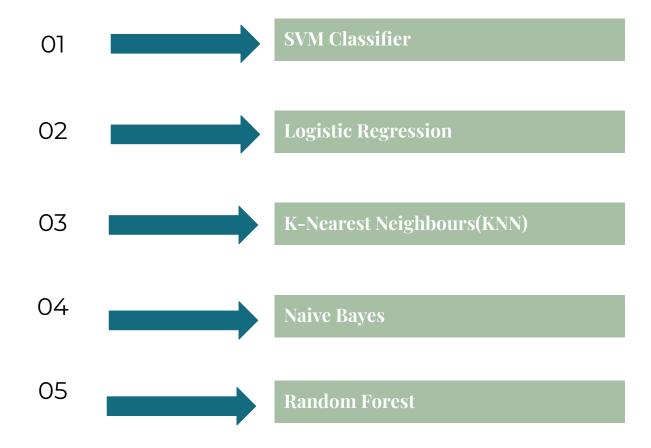
Data Preprocessing and Feature Engineering



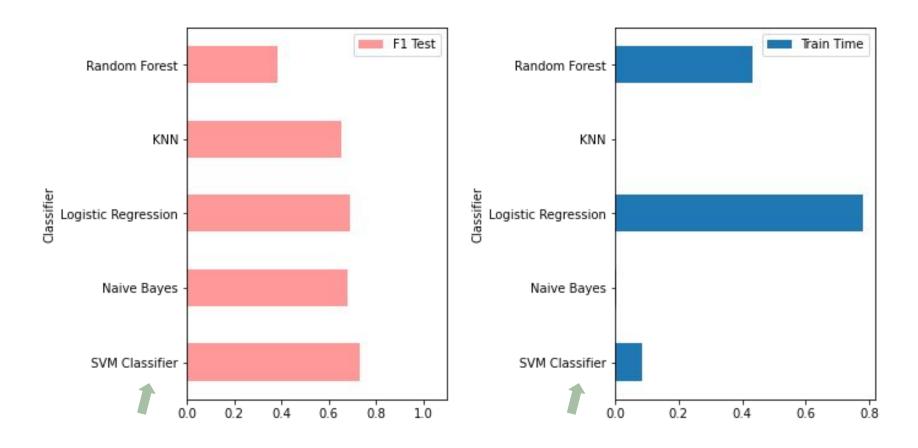


Model Development

Model Development



Model Evaluation



Streamlit Application





Conclusion

Business Values



Instant access to valuable insights.



Cost effective



Wide range of demographics



Conclusion

Capable of gauging people's sentiments from tweets.

Governments, Environmental Activists, Pro-Climate Non-Profit Organizations etc.



"There is no question that climate change is happening; the only arguable point is what part humans are playing in it."

- David Attenborough

Thank You

