



team REDWARN

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<u>Tasks</u>

- 1. Topic Modeling
- 2. <u>Time Series</u> <u>Analysis</u>
- 3. <u>Sentiment</u> <u>Analysis</u>
- 4. <u>Distribution</u>
 of Posts over
 Time

5. <u>Temporal</u> <u>Analysis</u>



With time, our team was able to to come up with our Minimum Lovable Product, and we have been able to achieve that.

During this project our team has completed the code for the aforementioned tasks excluding Temporal Analysis, which we were close to finishing but was not needed to reach our Minimum Lovable Product.

Time Series Analysis (Task #2)

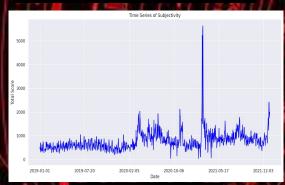


Fig.1 Time Series Analysis

From this plot we can see that the sentiment score of posts increased as time went on.

Post Distribution

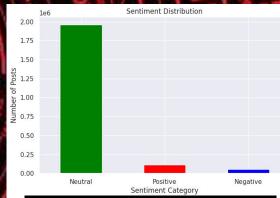
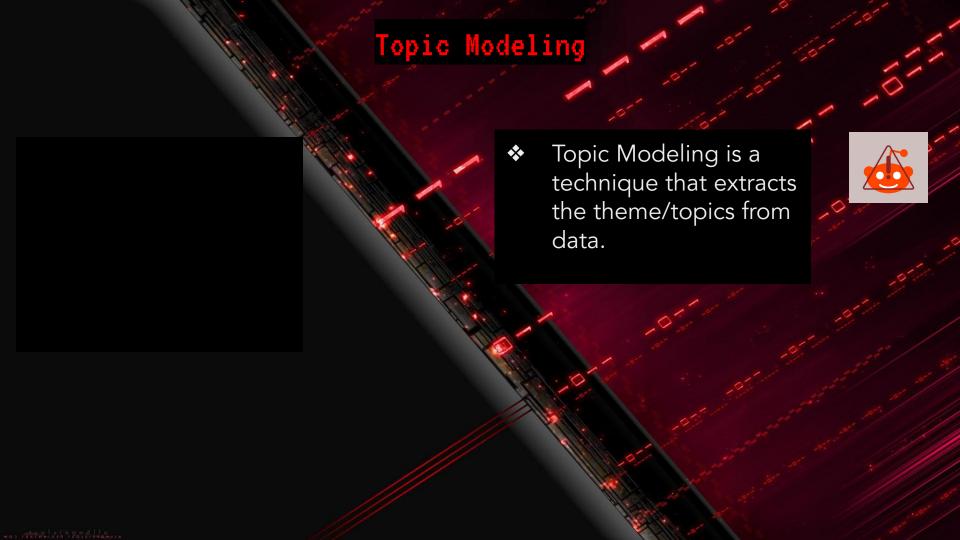
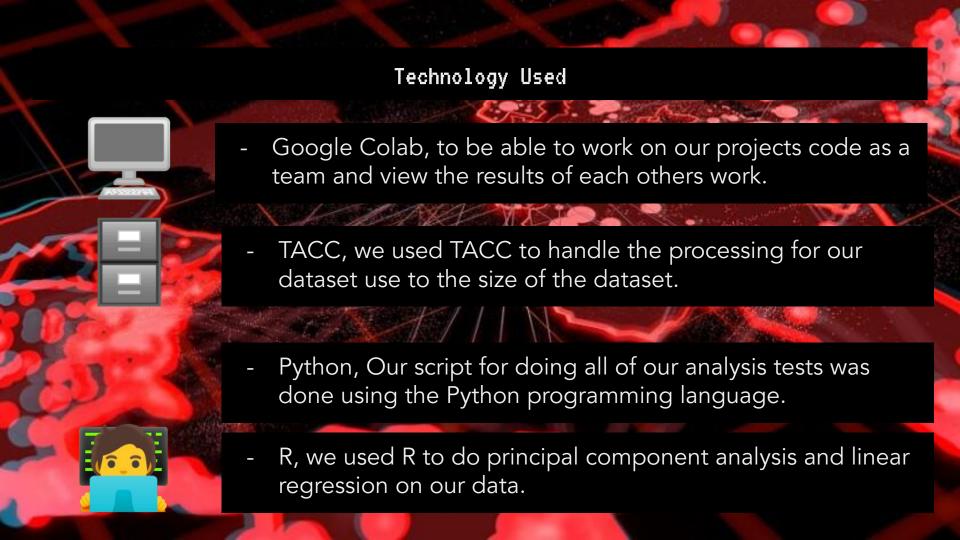


Fig.2 Post distribution based on sentiment

Our findings show that the vast majority of posts have a neutral sentiment.

Semantic Analysis Example of our Data. author_flaauthor_flabody subreddit Segment Analytic Date parent id score we 767429 4/21/2020 808adw 767429 I just did t fo483tt t1 fo3hgk 1 Austin 13.76 57.46 16.67 14.29 9.52 Mean of Polarity in Different Stages Regression of Polarity on Stage Fitted model: Polarity = 9.15e-02 -3.76e-03 * Stage; p-value for Stage: 8.31e-05 Fig 1. Positive sentiment word cloud. Stage Number Fig 2. Negative sentiment word cloud.





REDWARN

(Reddit Data for Early Warning and Response to Pandemics

Project Impact on The Community The Impact our project intends to bring for the community of Austin, TX is an opportunity for leaders in the community to have an example of how people will react to these big events. It will not only be important information to the leaders but the community will have a better experience in these situations because the leaders know their sentiment reaction.

