

# CAPSTONE REVIEW-3

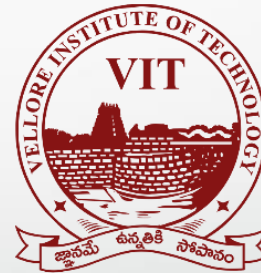
## TWEET CLASSIFICATION AND TREND DETECTION USING NLP

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# Outline:

- Objective Result.
- Tools used.
- Real-time Applications.
- Project Timeline.
- Output Screenshots.

## OBJECTIVE RESULT:

- OBJECTIVE:
- To develop a prediction model based on data extracted from twitter- Prediction of US Election results based on a limited dataset of tweets from twitter.
- OBJECTIVE RESULT:
- I have successfully developed a model using Natural Language Processing a social media based results of US elections 2020. The results are precise and are nearly accurate to the original election result.

# Tools Used:

- **Python** — a programming language
- **Tweepy** — a type of RESTful API specifically for Twitter
- **Textblob** — processed textual data library tool (already trained on numerous textual data.)
- **Pandas** — data manipulation and analysis library
- **NumPy** — scientific computing library
- **Matplotlib** — plotting library
- **Plotly** — plotting library
- **Seaborn** — Data visualization library based on Matplotlib
- **Wordcloud** — library for a visual representation of textual data

# Applications

- This analysis model can be used to:
- Categorize any product feedback (ex: medicine, electronics etc)
- Compare product competitors based on reviews.
- Election results based on public opinion on social media.
- Analysis of Restaurant/ Movie reviews.

# Project Timeline

## September

Topic Confirmation and research

Data Collection, preprocessing and cleansing

## October

Using Sentimental analysis to filter trending topics

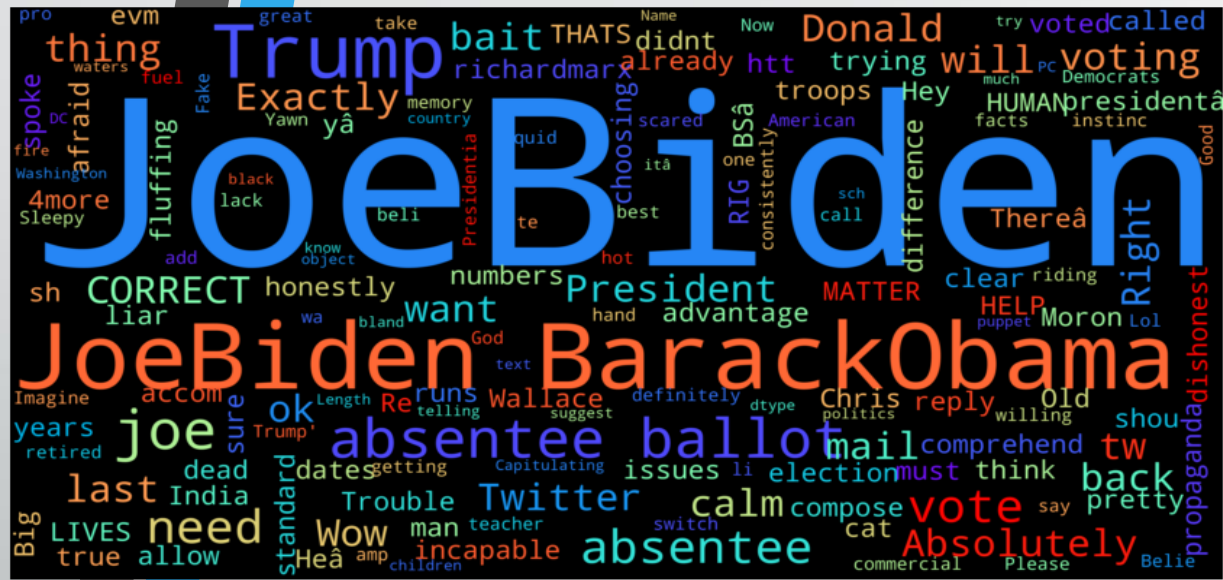
Developing Prediction model

## November

Data set preparation and extracting final results

Display prediction and interpretation

## Output Screenshots:

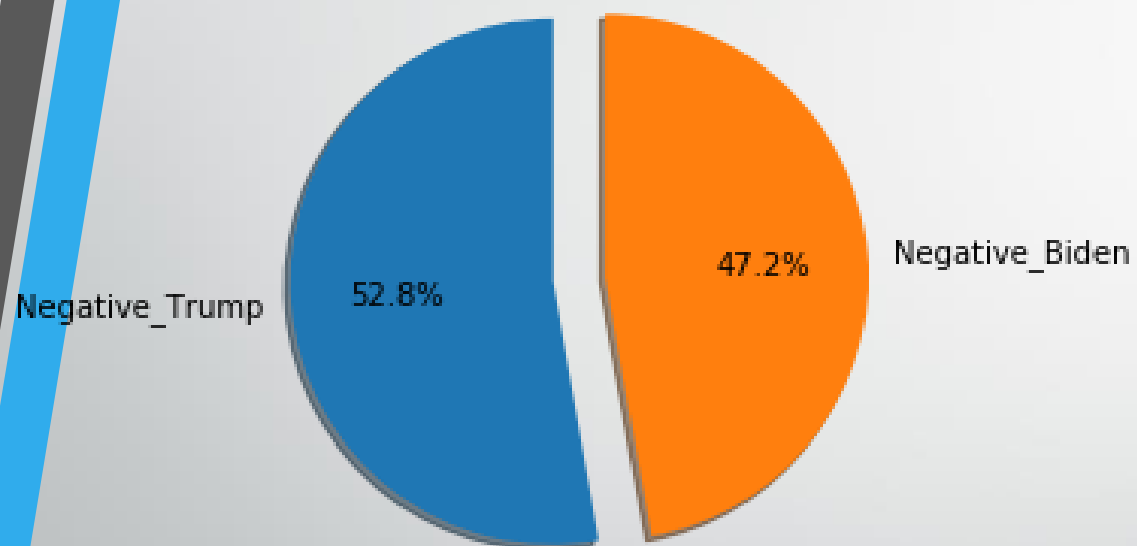


# Joe Biden Word Cloud

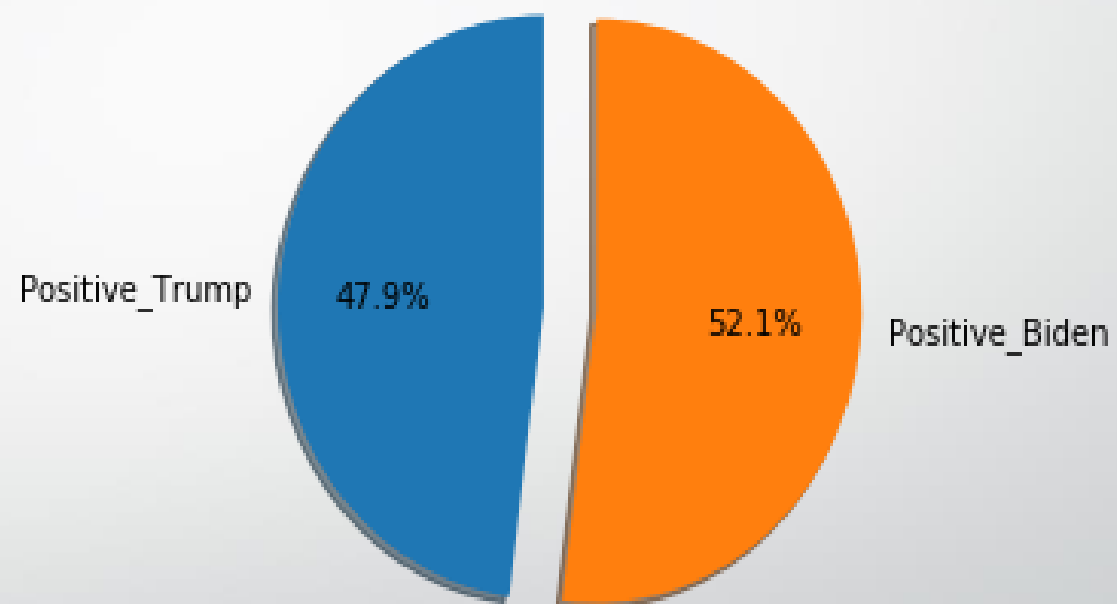


# Donald Trump Word Cloud

Negative tweets on both the handles



Positive tweets on both the handles







**Thank You**