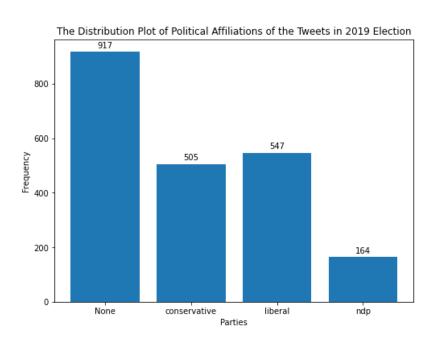
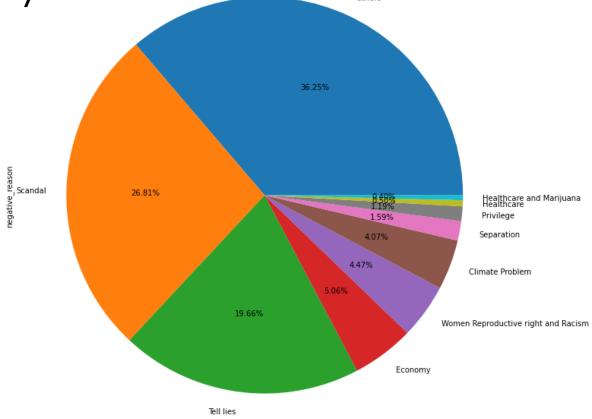
Findings from Exploratory analysis

- Data set Structure





- There are 917 (42.99%) tweets not related to the three major parties. Among the three major part ies, "Liberal Party" is mentioned in 547 (25.64%) tweets while "Conservative Party" is slightly less popular than "Liberal Party" with 505 (23.68%) tweets. NDP is mentioned less than others, with 16 4 tweets (7.69%).
- As shown in the pie chart, despite 36.25% reason from "others", the major reason for tweets been negative in 2019 Canadian election is "Scandal" which occupies 26.81% and "Tell Lies" which occupies 19.66%.



Positive Word Cloud

Keywords

- Love
- Good
- LOL
- haha
- Nice

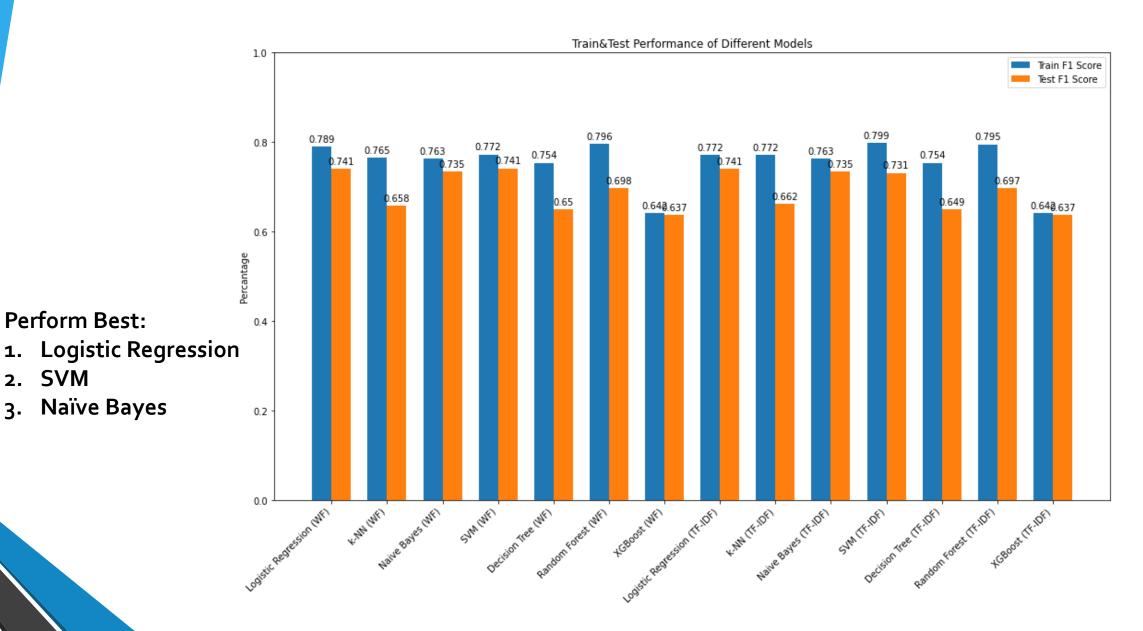
Negative Word Cloud

Keywords

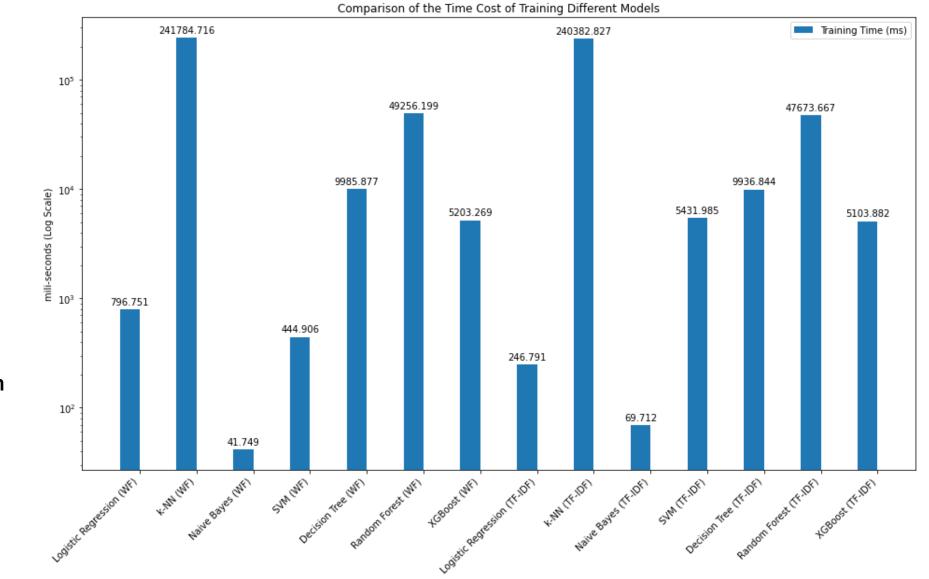
- gopdebate
- work
- sad
- sick
- hate



Compare the Performance between Different Models



Compare the Time Cost of Training Different Models



Perform Best:

- 1. Naïve Bayes
- 2. Logistic Regression
- 3. SVM

