

F-score for positive class analysis

Bag of Words alone

| Feature Count | Mutual Information | Chi-squared |
|---------------|--------------------|-------------|
| 100 | 0.61468 | 0.61682 |
| 500 | 0.60748 | 0.61343 |
| 1000 | 0.60845 | 0.60058 |
| 2000 | 0.60227 | 0.60519 |
| 3000 | 0.59913 | 0.59800 |
| 5000 | 0.60807 | 0.61891 |
| 10000 | 0.62420 | 0.62216 |
| 12000 | 0.62217 | 0.62850 |
| 15000 | 0.62624 | 0.62360 |

MPQA + BOW

| Feature Count | Mutual Information | Chi-squared |
|---------------|--------------------|-------------|
| 100 | 0.598742 | 0.611435 |
| 500 | 0.612291 | 0.608443 |
| 1000 | 0.616071 | 0.5892857 |
| 2000 | 0.615556 | 0.5991058 |
| 3000 | 0.614537 | 0.6240929 |
| 5000 | 0.610687 | 0.6195965 |
| 10000 | 0.635294 | 0.6218978 |

| Feature Count | Mutual Information | Chi-squared |
|---------------|--------------------|-------------|
| 12000 | 0.639386 | 0.6440678 |
| 15000 | 0.645 | 0.6449184 |

CoreNLP + BOW

| Feature Count | Mutual Information | Chi-squared |
|---------------|--------------------|-------------|
| 100 | 0.538813 | 0.5799457 |
| 500 | 0.568012 | 0.5900151 |
| 1000 | 0.572727 | 0.6184012 |
| 2000 | 0.615611 | 0.5988024 |
| 3000 | 0.605697 | 0.6133333 |
| 5000 | 0.621701 | 0.6332842 |
| 10000 | 0.613333 | 0.6117647 |
| 12000 | 0.610526 | 0.6172106 |
| 15000 | 0.624071 | 0.6140089 |

Twitter Sentiment Queues + BOW

| Feature Count | Mutual Information | Chi-squared |
|---------------|--------------------|-------------|
| 100 | 0.571019 | 0.5799457 |
| 500 | 0.591865 | 0.5900151 |
| 1000 | 0.596343 | 0.6184012 |
| 2000 | 0.613480 | 0.5988024 |
| 3000 | 0.625344 | 0.6133333 |
| 5000 | 0.6 | 0.6332842 |
| 10000 | 0.613333 | 0.6117647 |
| 12000 | 0.625165 | 0.6244477 |
| 15000 | 0.6276041 | 0.6311688 |

