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| **1.1** | | | | |
| **Feature Set** | **# of features** | **Model** | **Accuracy** | **Dataset** |
| Word\_features | ALL | NB | 0.864 | Dev |
| Word\_pos\_features | ALL | NB | 0.758 | Dev |
| Word\_pos\_LIWC | ALL | NB | 0.775 | Dev |
| Word\_features | ALL | NB | 0.831 | Test |
| Word\_pos\_features | ALL | NB | 0.786 | Test |
| Word\_pos\_LIWC | ALL | NB | 0.779 | Test |
| **1.2** | | | | |
| **Feature Set** | **# of features** | **Model** | **Accuracy** | **Dataset** |
| Word\_features | 16384 | NB | 0.850 | Dev |
| Word\_pos\_features | 256 | NB | 0.731 | Dev |
| Word\_pos\_features | 16384 | NB | 0.739 | Dev |
| Word\_pos\_LIWC | 256 | NB | 0.761 | Dev |
| Word\_features\_binning | 16384 | NB | 0.842 | Dev |
| Word\_features | 8192 | NB | 0.826 | Test |
| Word\_pos\_features | 256 | NB | 0.743 | Test |
| Word\_pos\_features | 16384 | NB | 0.779 | Test |
| Word\_pos\_LIWC | 16384 | NB | 0.784 | Test |
| Word\_features\_binning | 8192 | NB | 0.826 | Test |

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| **2.3** | | | |
| **Feature Set** | **Model** | **Dataset** | **Accuracy** |
| Word\_best\_features | NB\_NLTK | Dev | 0.850 |
| Word\_best\_features | NB\_NLTK | Test | 0.823 |
| Word\_best\_features | NB\_ Scikit\_Learn | Dev | 0.743 |
| Word\_best\_features | NB\_ Scikit\_Learn | Test | 0.736 |
| Word\_best\_features | DT\_ Scikit\_Learn | Dev | 0.764 |
| Word\_best\_features | DT\_ Scikit\_Learn | Test | 0.701 |
| Word\_best\_features | SVM | Dev | 0.529 |
| Word\_embedding | SVM | Dev | 0.729 |
| Word\_best\_features | SVM | Test | 0.532 |
| Word\_embedding | SVM | Test | 0.719 |