

CMPS143_ass4

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Feature set	# of features selected	Model	Accuracy	Dataset
word_features (not binned)	All	Naïve Bayes	0.8642857142857143	dev
word_features (not binned)	All	Naïve Bayes	0.8308457711442786	test
word_features (not binned)	32	Naïve Bayes	0.6785714285714286	dev
word_features (not binned)	32	Naïve Bayes	0.6791044776119403	test
word_features (not binned)	256	Naïve Bayes	0.8178571428571428	dev
word_features (not binned)	256	Naïve Bayes	0.8059701492537313	test
word_features (not binned)	8192	Naïve Bayes	0.8178571428571428	dev
word_features (not binned)	8192	Naïve Bayes	0.8184079601990052	test
word_features (not binned)	32768	Naïve Bayes	0.8535714285714285	dev
word_features (not binned)	32768	Naïve Bayes	0.8308457711442786	test

Feature set	Model	Dataset	Accuracy
word_features (not binned)	Naïve Bayes NLTK	dev	0.8535714285714285
word_features (not binned)	Naïve Bayes NLTK	test	0.8308457711442786
word_features (not binned)	Naïve Bayes Scikit Learn	dev	0.7321428571428571
word_features (not binned)	Naïve Bayes Scikit Learn	test	0.7412935323383084
word_features (not binned)	Decision Tree Scikit Learn	dev	0.75
word_features (not binned)	Decision Tree Scikit Learn	test	0.6940298507462687
word_features (not binned)	SVM	dev	0.5285714285714286
word_features (not binned)	SVM	test	0.5497512437810945
w2vec	SVM	dev	0.7285714285714285
w2vec	SVM	test	0.7189054726368159