

Methodology

Process: classify; split sentences; lower case; remove punctuation; remove common words

1. found lecture taught well (Positive)

2. however confusion related coursework assignment required (Negative)

A

Sentence	Variables										Outcome
	found	lecture	taught	well	however	confusion	related	coursework	assignment	required	Class
1	1	1	1	1	0	0	0	0	0	0	Pos
2	0	0	0	0	1	1	1	1	1	1	Neg

Split Data: Training 75%: Test 25%

Train models on Training Data

Test models on Test Data

Model complexity: Logistic Regression (simple) -> Random Forests (complex)

Metric: Classification 'Accuracy'

Target: 'No Information Rate' (64%)

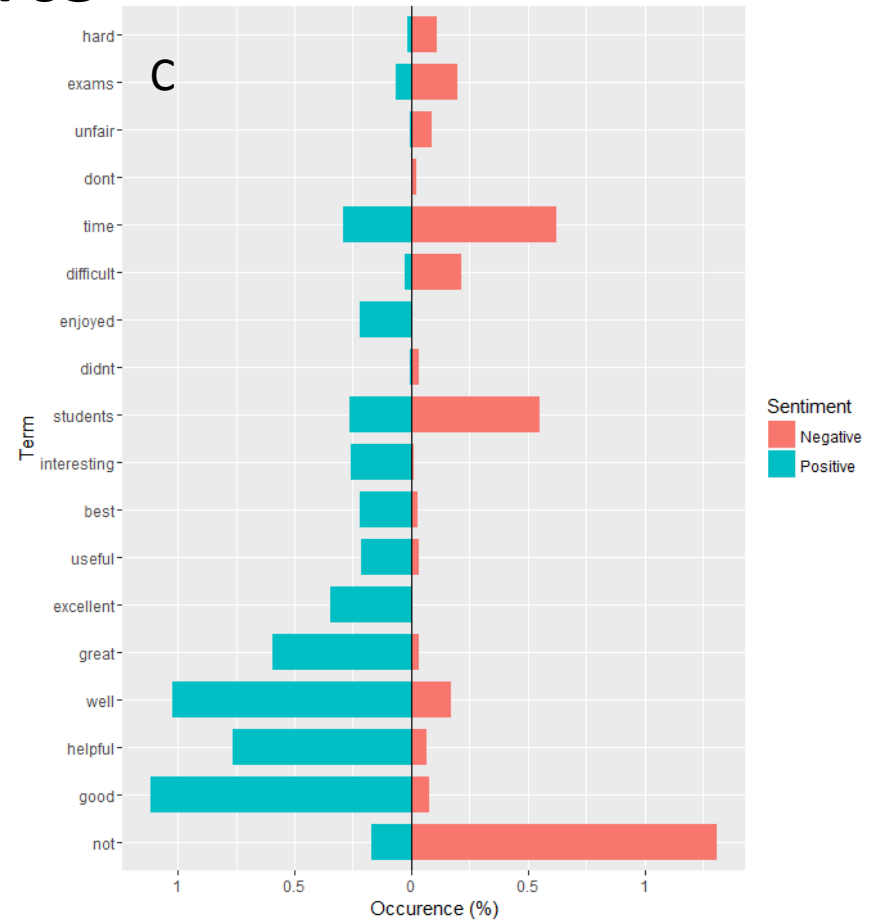


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Results

B

Model	Time (secs)	Accuracy (%)
Logistic Regression	18.01	84%
Linear Discriminant Analysis (LDA)	20.36	83%
<u>Elastic Net Regression</u>	<u>67.17</u>	<u>85%</u>
Support Vector Machine (SVM)	650.5	83%
Random Forest	7236.5	82%



D

Comments	Positive	Negative
I found this lecture to be taught well	<u>0.62</u>	0.38
However, there was some confusion related to the coursework assignment and what was required	0.25	<u>0.75</u>



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