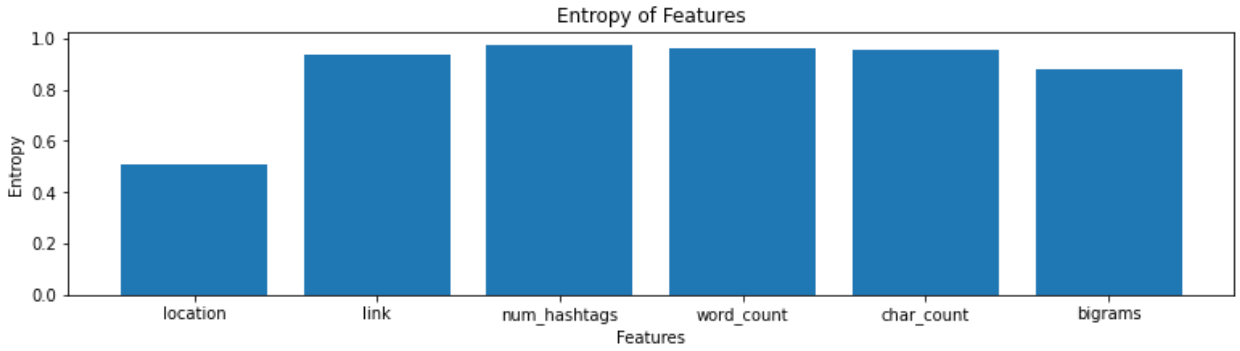
Example of How a Single Decision Tree Will Predict a Tweet

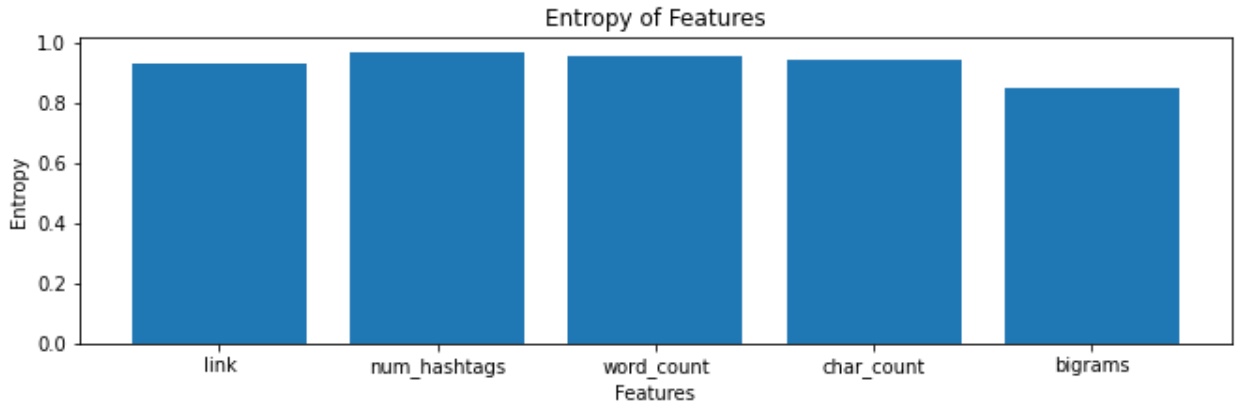
Features of Tweet

keyword	apocalypse
location	empty string
link	False
num_hashtag	0
word_count	6-10
char_count	41-60
avg_char_per_word	6.1
keyword2	day
bigrams	none

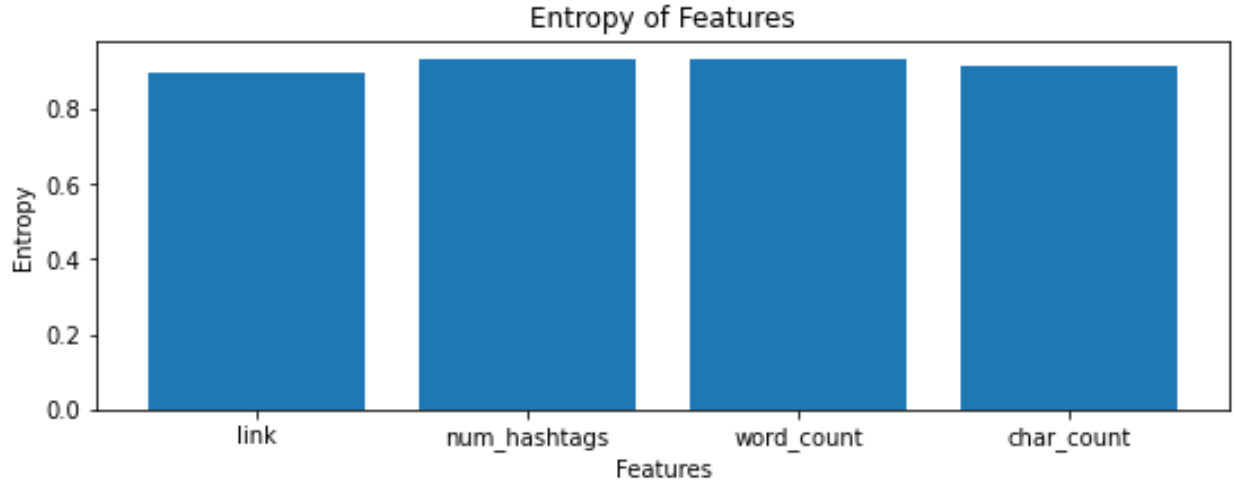
```
Split 1 : location
Tweet => location => empty string
Entropy location : 0.50659025
Entropy link : 0.9378582
Entropy num_hashtags : 0.97621673
Entropy word_count : 0.9635199
Entropy char_count : 0.9545876
Entropy bigrams : 0.882426
```



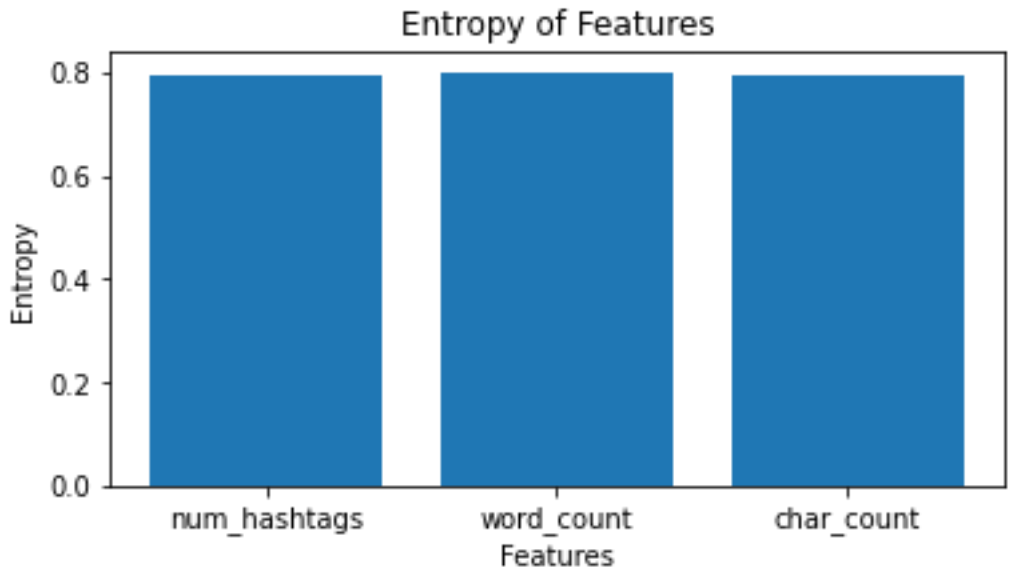

```
Split 2 : bigrams
Tweet => bigrams => none
Entropy link : 0.92933375
Entropy num_hashtags : 0.96966213
Entropy word_count : 0.9549786
Entropy char_count : 0.93903965
Entropy bigrams : 0.85132957
```



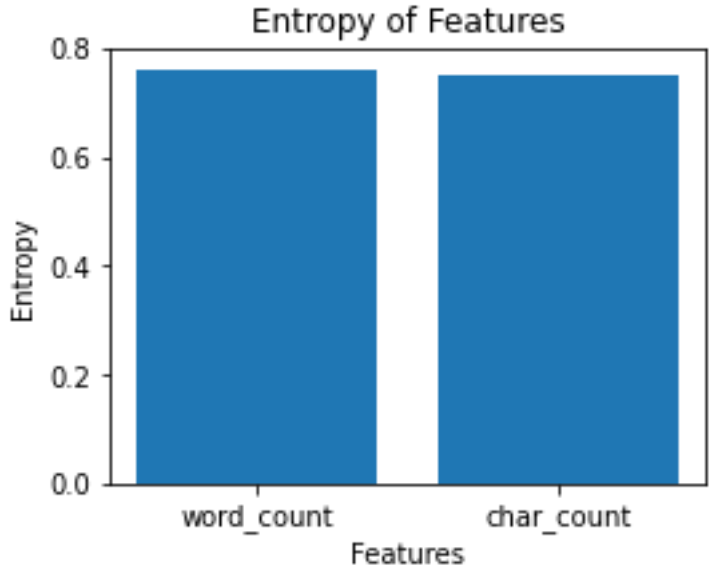

```
Split 3 : link
Tweet => link => False
Entropy link : 0.89738905
Entropy num_hashtags : 0.93562067
Entropy word_count : 0.9324234
Entropy char_count : 0.91463715
```



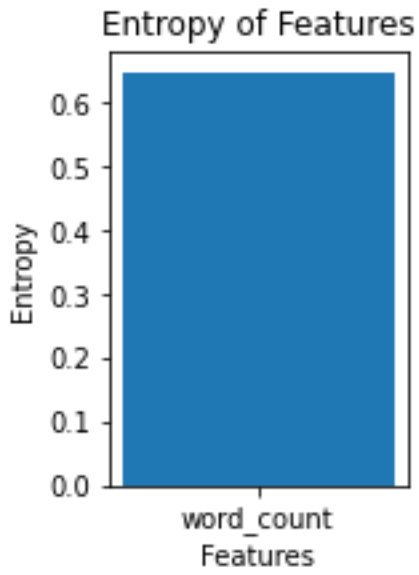

```
Split 4 : num_hashtags
Tweet => num_hashtags => 0
Entropy num_hashtags : 0.79276335
Entropy word_count : 0.8015714
Entropy char_count : 0.7949071
```




```
Split 5 : char_count
Tweet => char_count => 41-60
Entropy word_count : 0.76196915
Entropy char_count : 0.7514149
```




```
Split 6 : word_count
Tweet => word_count => 6-10
Entropy word_count : 0.6495526
```




```
Tree: Leaf(value='0')
Prediction: 0
Actual Value: 0
```