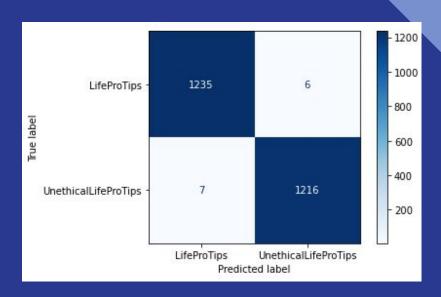
Binary Classification of Reddit Posts

/r/LifeProTips
/r/UnethicalLifeProTips

No Stop Words

Trivial problem:

Base parameters achieve .9946 accuracy



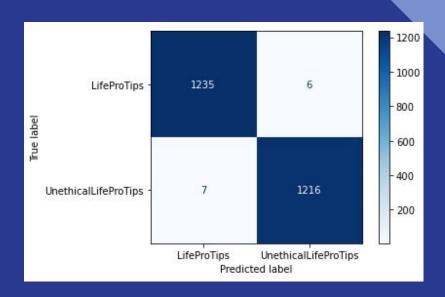
No Stop Words

Trivial problem:

Base parameters achieve .9946 accuracy

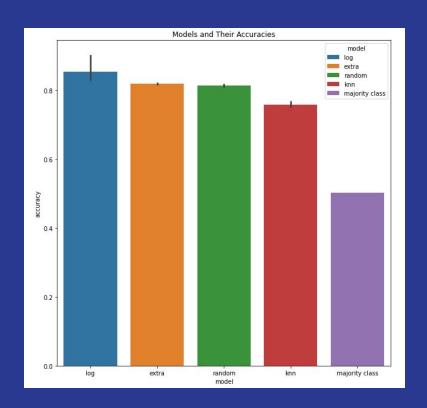
Top 5 words by count:

- 1. to 5266
- 2. you 4706
- 3. the 3947
- 4. lpt 3689
- 5. ulpt 3557



Explored Models

- 1. Logistic Regression (.832792)
- 2. Extra Trees Classifier (.821834)
- 3. Random Forest Classifier (.819508)
- 4. KNN (.767857)

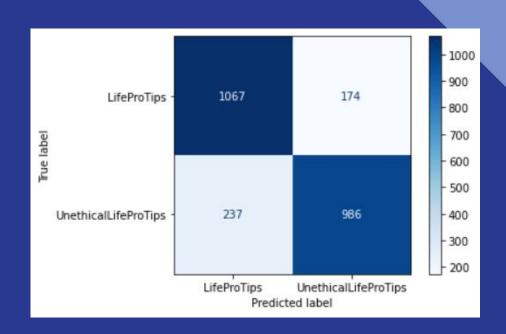


Best Model:

Train (0.9953) Test (0.8332)

- Logistic Regression
- Lemmatized
- Count Vectorized
 - ngram_range (1, 2)
 - stop_words ['lpt', 'ulpt']

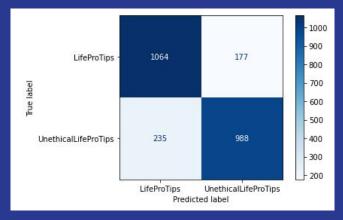
- Additional Features
 - Title word count
 - Avg word length in title



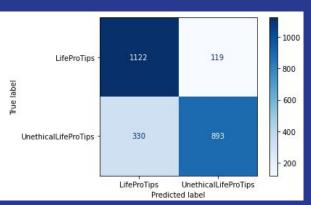
Areas for Improvement

- Using the body of the text or even comments could be considered as in some cases titles are very short or simple and the body contains the majority of relevant text. And in the case of 'request' type posts the comments are an important part of the post as a whole.
- Sentiment analysis could prove to be beneficial given the nature of these subreddits.

Logistic Regression



Extra Trees Classifier

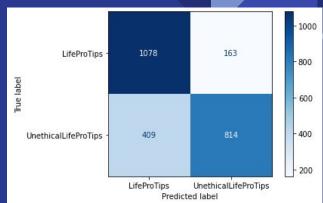


Total Misclassifications: 1894

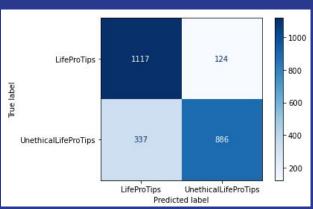
Number of Misclassifications Without Duplicates: 715

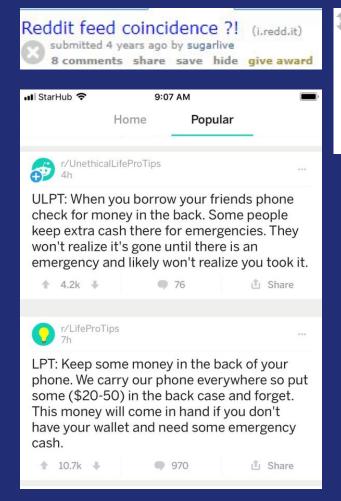
Averages: 2.65

K Nearest Neighbors



Random Forest Classifier





[-] cardboard-kansio 5 points 4 years ago

If you're subscribed to both subs, you'll find this is no coincidence at all. It's where most ULPT ideas come from, in fact.

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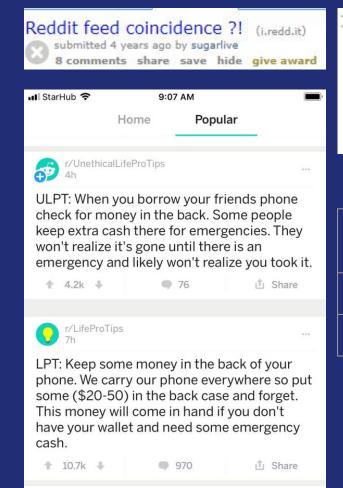
[-] sugarlive [S] 1 point 4 years ago

I am not subscribed to ULTP. It's shown under popular tab permalink embed save parent report give award reply

[-] cardboard-kansio 2 points 4 years ago

Some might argue that stealing LPTs to twist them into ULPTs and grind for karma is unethical. I guess that's kinda the point.

permalink embed save parent report give award reply



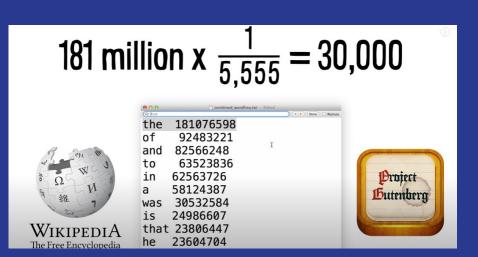
- 5	[-] cardboard-kansio 5 points 4 years ago If you're subscribed to both subs, you'll find this is no coincidence at all. It's where most ULPT ideas come from, in fact. permalink embed save report give award reply
	• [-] sugarlive [S] 1 point 4 years ago • I am not subscribed to ULTP. It's shown under popular tab permalink embed save parent report give award reply
	[-] cardboard-kansio 2 points 4 years ago Some might argue that stealing LPTs to twist them into ULPTs and grind for karma is unethical. I guess that's kinda the point.
	permalink embed save parent report give award reply

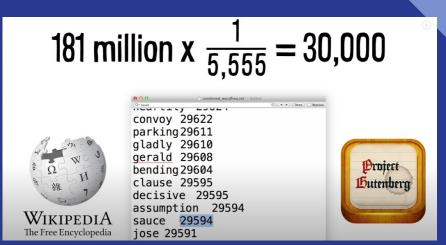
Actual	Predicted	Predict Probabilities (LPT, ULPT)
ULPT	LPT	(0.5816, 0.4184)
LPT	LPT	(0.5816, 0.4184)

Bonus: Zipf

Vsauce: The Zipf Mystery

Zipf's law (/zɪf/, not /tsɪpf/ as in German) is an empirical law formulated using mathematical statistics that refers to the fact that for many types of data studied in the physical and social sciences, the rank-frequency distribution is an inverse relation.





Bonus: Zipf

