

Spotify vs Netflix

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The purposes :

1. Understand current trends using Reddit
2. Better understand customer's preferences
3. Which model is better to predict subreddit

Audience :

Spotify or Netflix Data scientists

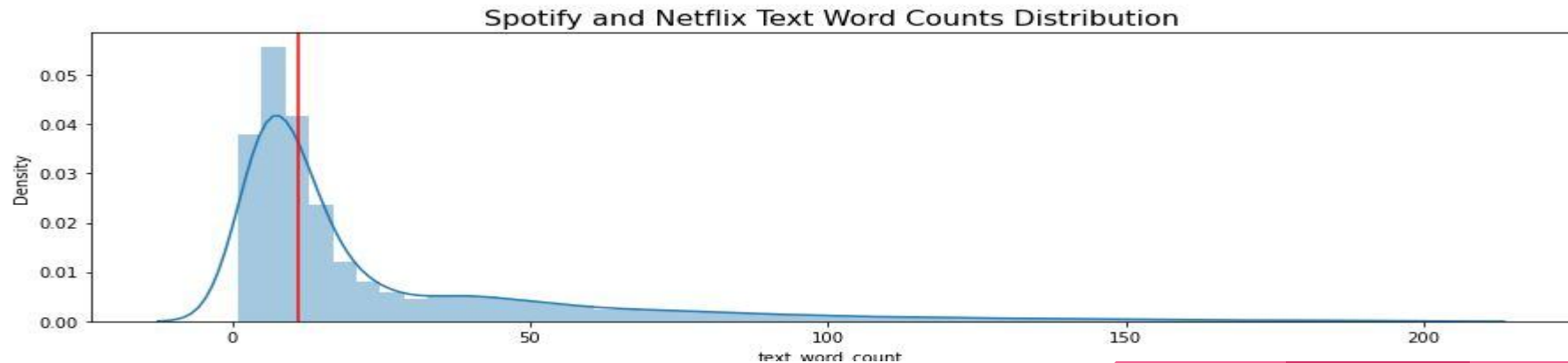
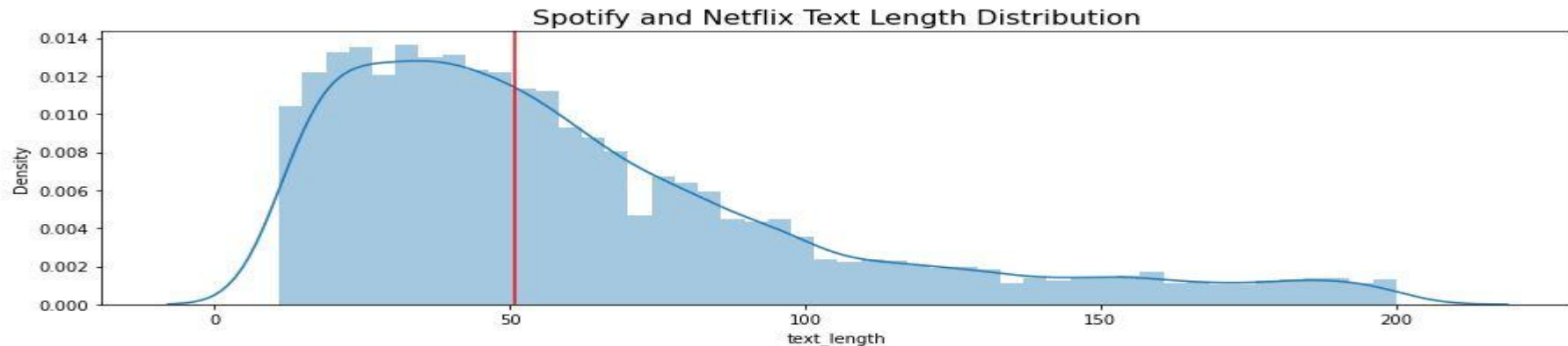


Webscraping

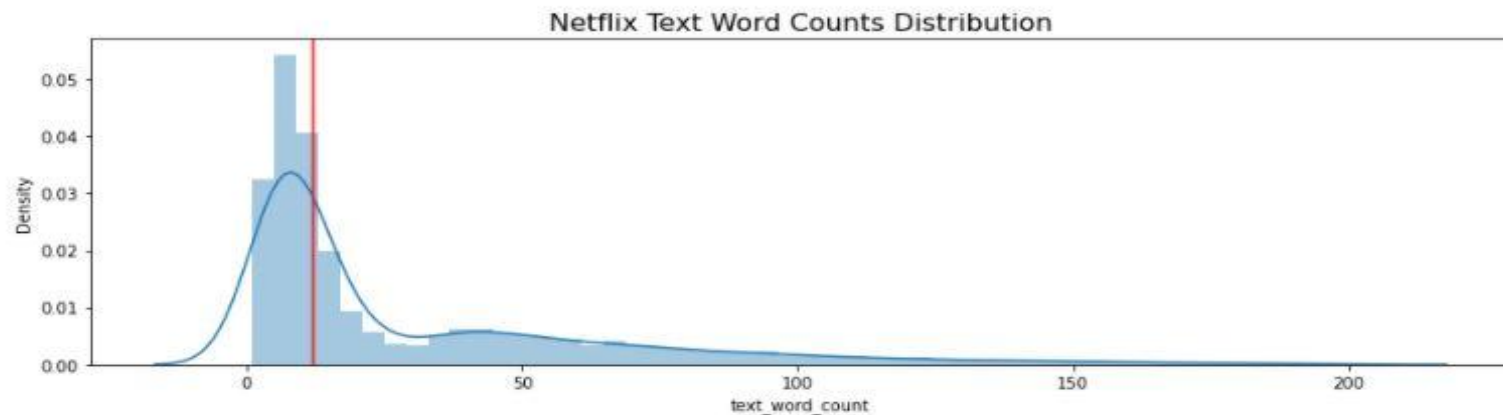
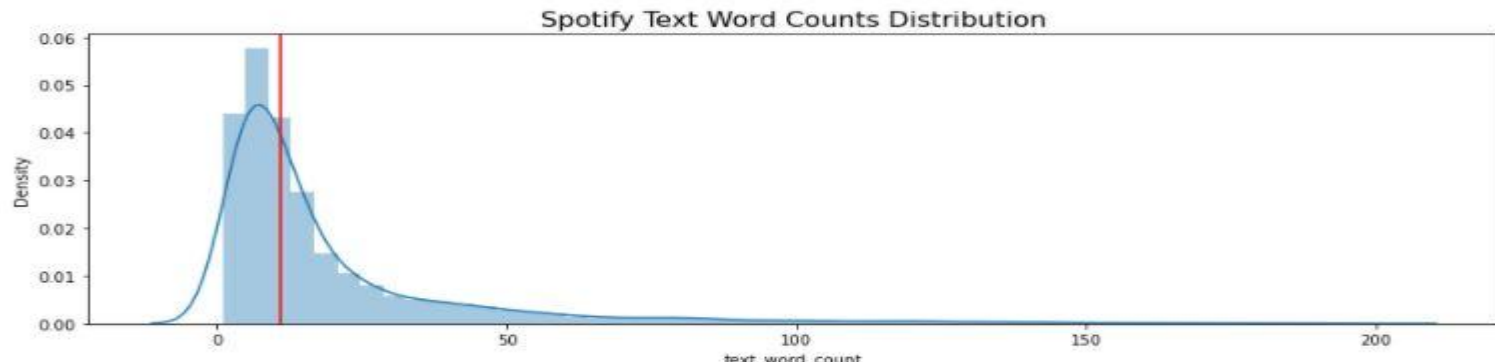
1. Using pushshift API (<https://api.pushshift.io>)
2. Subreddits : Spotify and Netflix
3. 10,000 rows each Subreddit, before Jan 31,2021



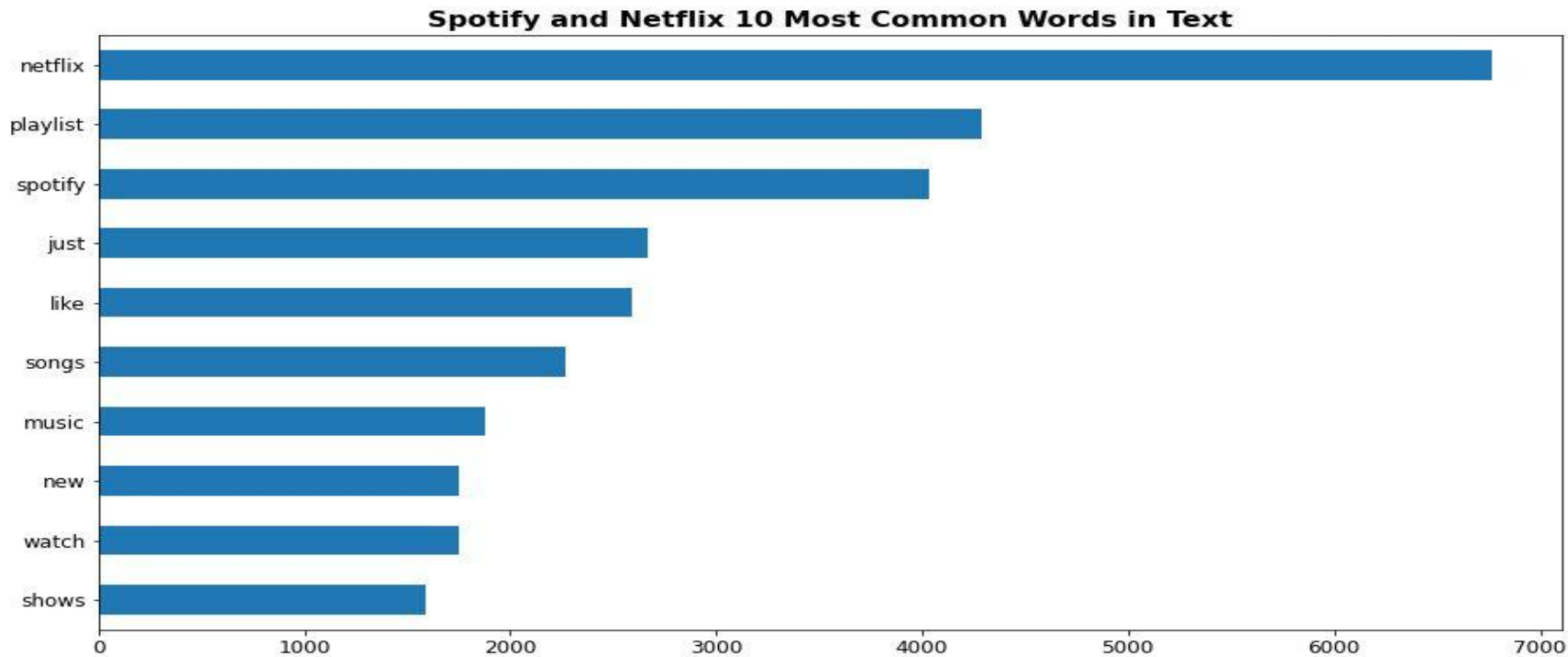
Distribution:



More words for Netflix

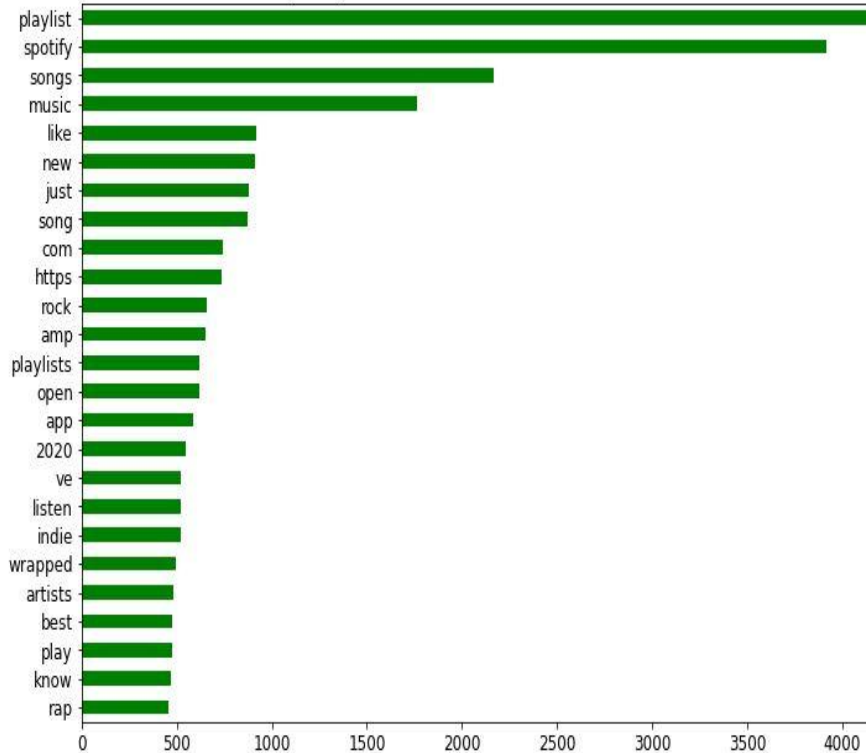


Top 10 common words

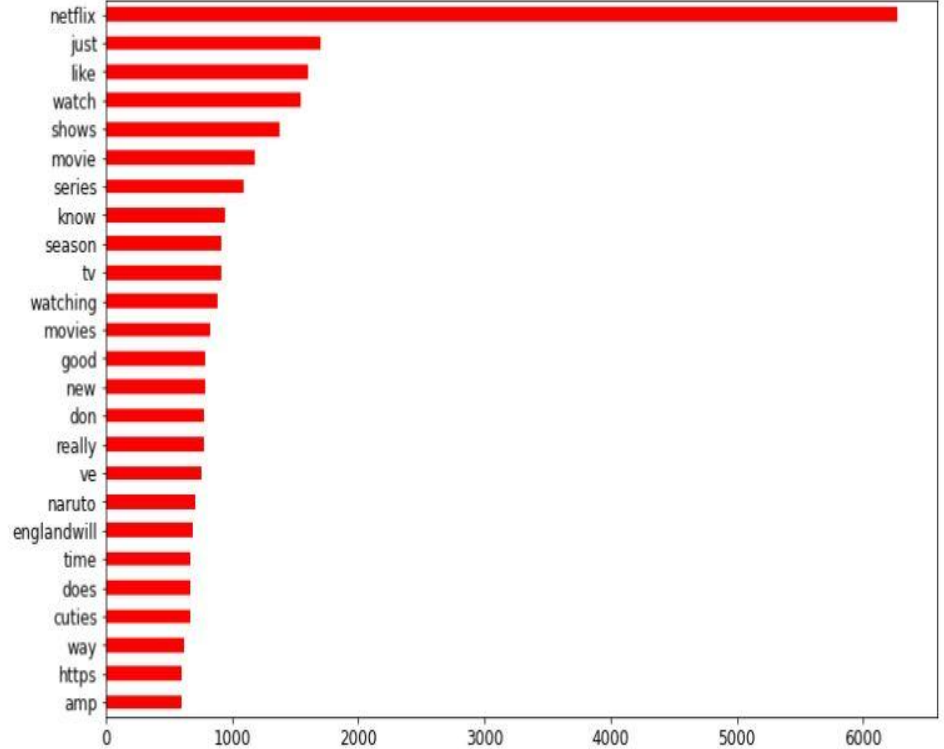


Spotify vs Netflix

Spotify 25 Most Common Words in Text



Netflix 25 Most Common Words in Text



Modeling

Using Count Vectorizer and TF-IDF with english stop words:

Baseline : 51 %

1. Bayes
2. KNN
3. Random Forest Classifier



Bayes

Train score : 97.5 %

Test score : 95 %

```
[[2778 114]
 [ 171 2733]]
```

	precision	recall	f1-score	support
0	0.94	0.96	0.95	2892
1	0.96	0.94	0.95	2904
accuracy			0.95	5796
macro avg	0.95	0.95	0.95	5796
weighted avg	0.95	0.95	0.95	5796

KNN

Train score: 75%

Test score : 67.5%

```
[[2716 176]
 [1706 1198]]
```

	precision	recall	f1-score	support
0	0.61	0.94	0.74	2892
1	0.87	0.41	0.56	2904
accuracy			0.68	5796
macro avg	0.74	0.68	0.65	5796
weighted avg	0.74	0.68	0.65	5796

Random forest Classifier

Train score : 99.9%

Test score : 95%

```
[[2819  73]
 [ 214 2690]]
```

	precision	recall	f1-score	support
0	0.93	0.97	0.95	2892
1	0.97	0.93	0.95	2904
accuracy			0.95	5796
macro avg	0.95	0.95	0.95	5796
weighted avg	0.95	0.95	0.95	5796

Conclutions:

Bayes and Random forest classifier model is the best to predict classification data

In this project or similar project

