

Background Information

Reddit – Online message board and forum.

AskScience - Ask a science question, get a science answer.

ExplainLikeImFive (ELI5) - Explain Like I'm Five is the best forum and archive on the internet for layperson-friendly explanations. Don't Panic!



Problem Statement

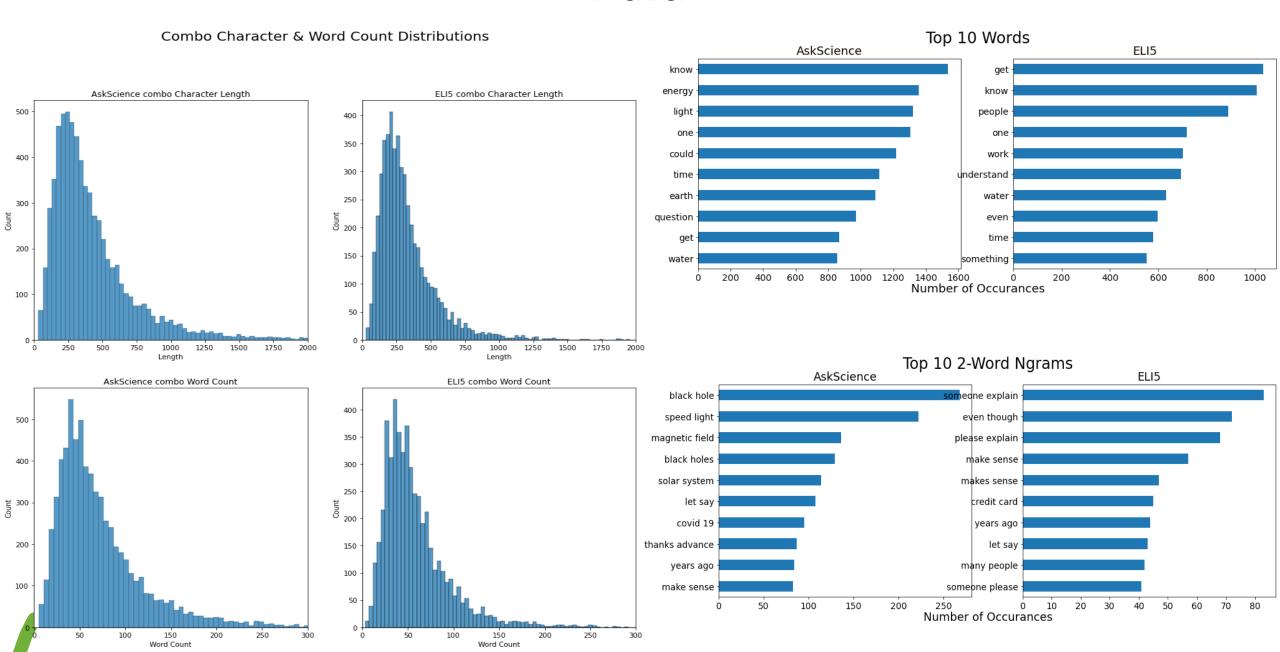
What am I hoping to achieve with this?

If ELI5 is distinguishable from AskScience.

Why?

To see if a subreddit focused on explaining things in a simple manner is that much different than a subreddit that wants to explain it any way they can.

Data





Model 1: Count Vectorizer and Random Forest

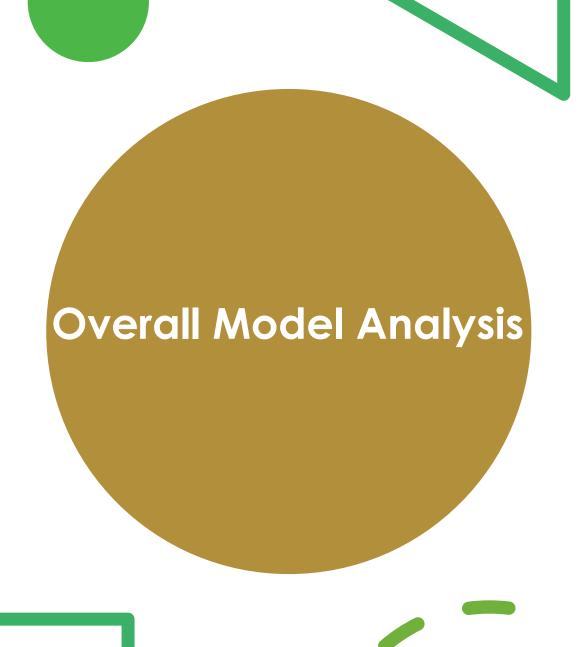




Model 2: TfidfVectorizer and Random Forest



Model 3: TfidfVectorizer and KNeighborsClassifier



Model 1 Analysis:

- Training accuracy = 97.6%
- Testing accuracy = 75.2%

Model 2 Analysis:

- Training accuracy = 99.4%
- Testing accuracy = 75.6%

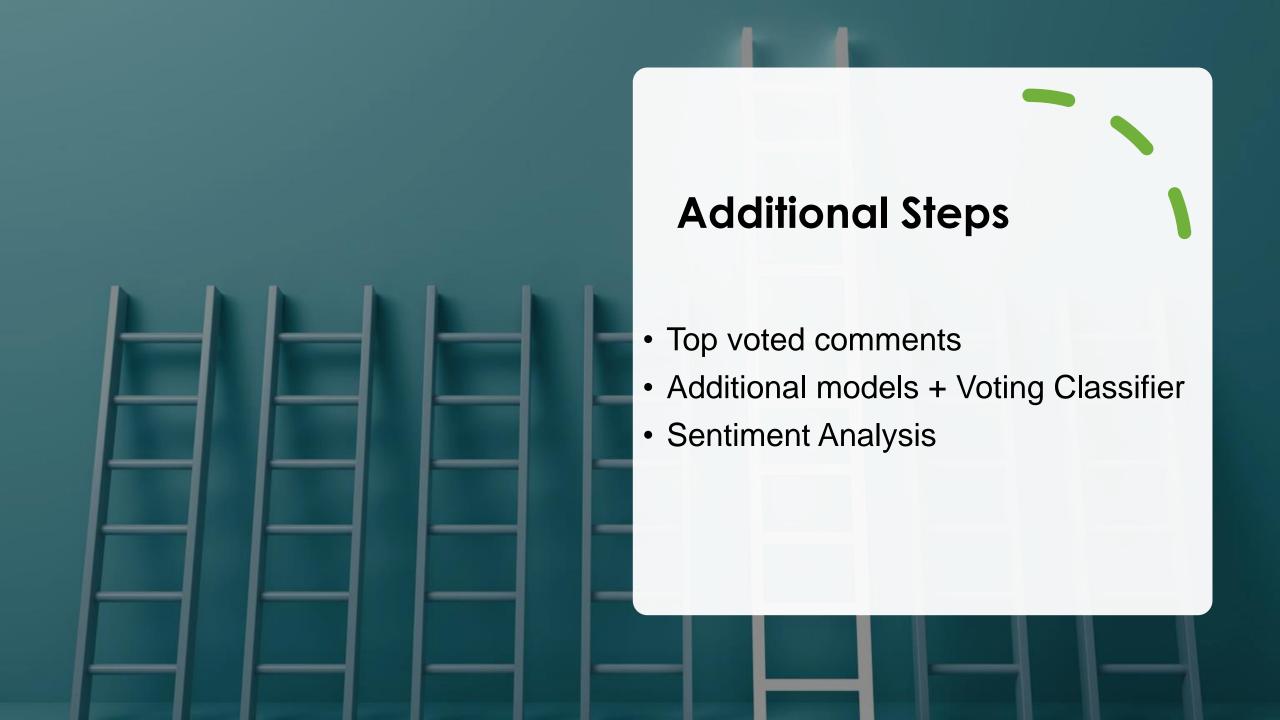
Model 3 Analysis:

- Training accuracy = 80.0%
- Testing accuracy = 69.8%

Conclusion and Recommendations

All 3 models beating our null model by such a degree signifies that there is a discernable difference between the two subreddits, AskScience and ExplainLikeImFive.

These models individually gave us a good inclination towards this conclusion and since they all point to the same conclusion, we are even more sure.



Any Questions?

