

By Makena Jones  
January 18, 2022

## Harry vs. Frodo?: When Fandoms Collide



Distinguishing posts from the subreddits of two of  
the largest fantasy fandoms, Harry Potter and Lord  
of the Rings

A General Assembly - DSI 1128 Project

What classification model best distinguishes if a post is from r/lotr or r/harrypotter?

What about when the post contains no character names or words associated with the respective lores?



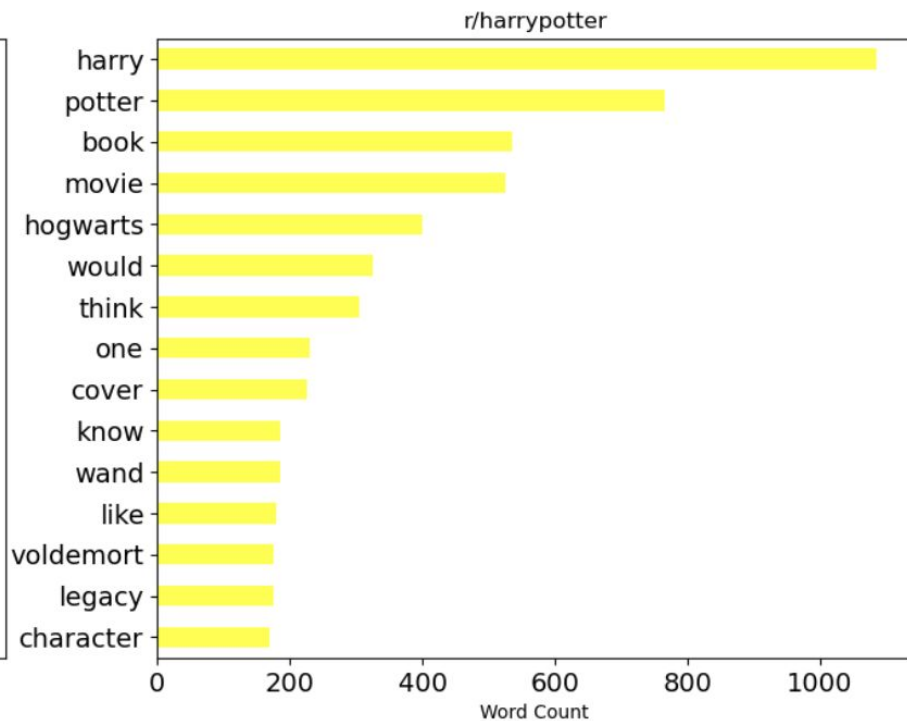
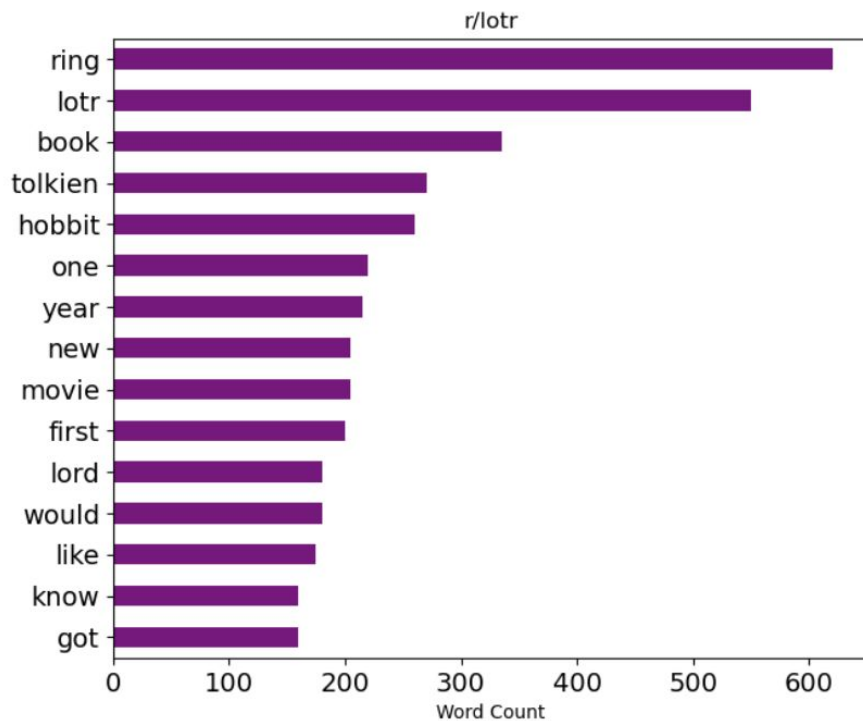
Source:  
[link](#)

# OVERVIEW

- Why would we want to create this model?
- Methods for testing and evaluating different models.
- Best performing model.
- Going forward.

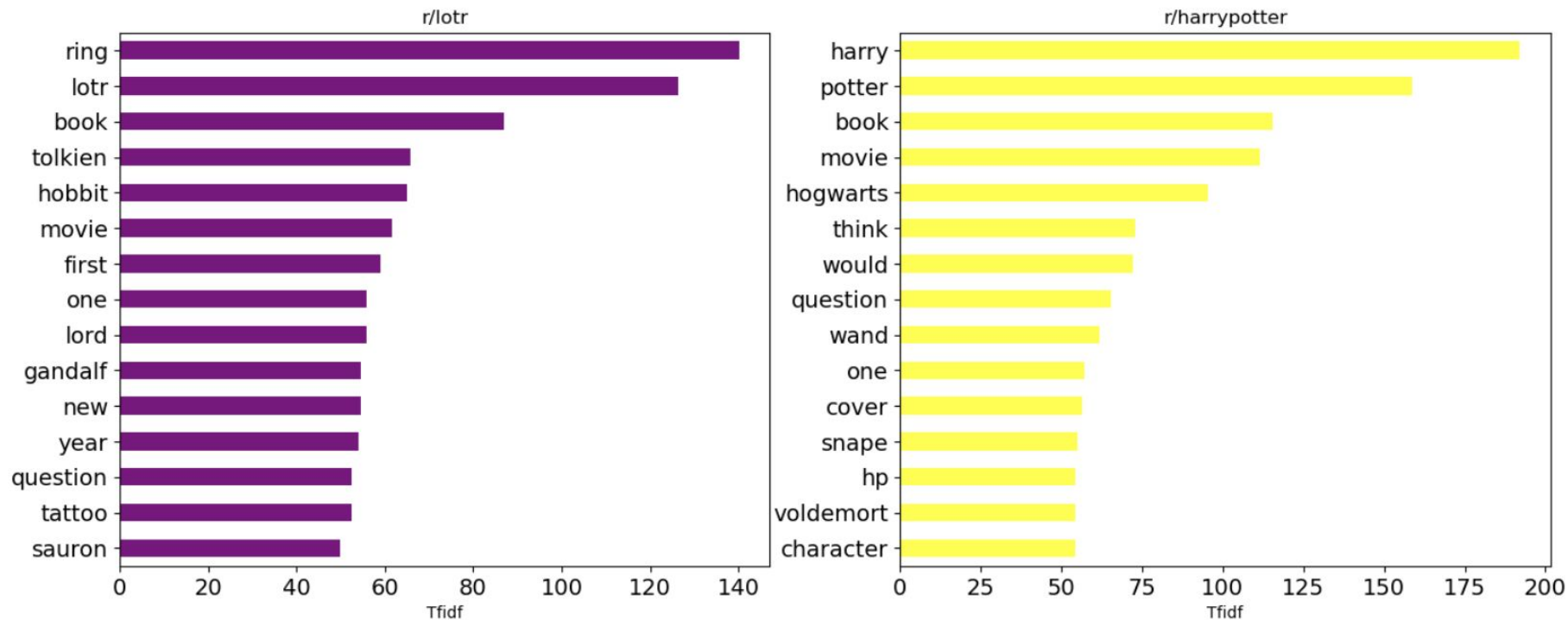
# Data Exploration

## LOTR and HP Subreddit Word Count in "Title" of Posts



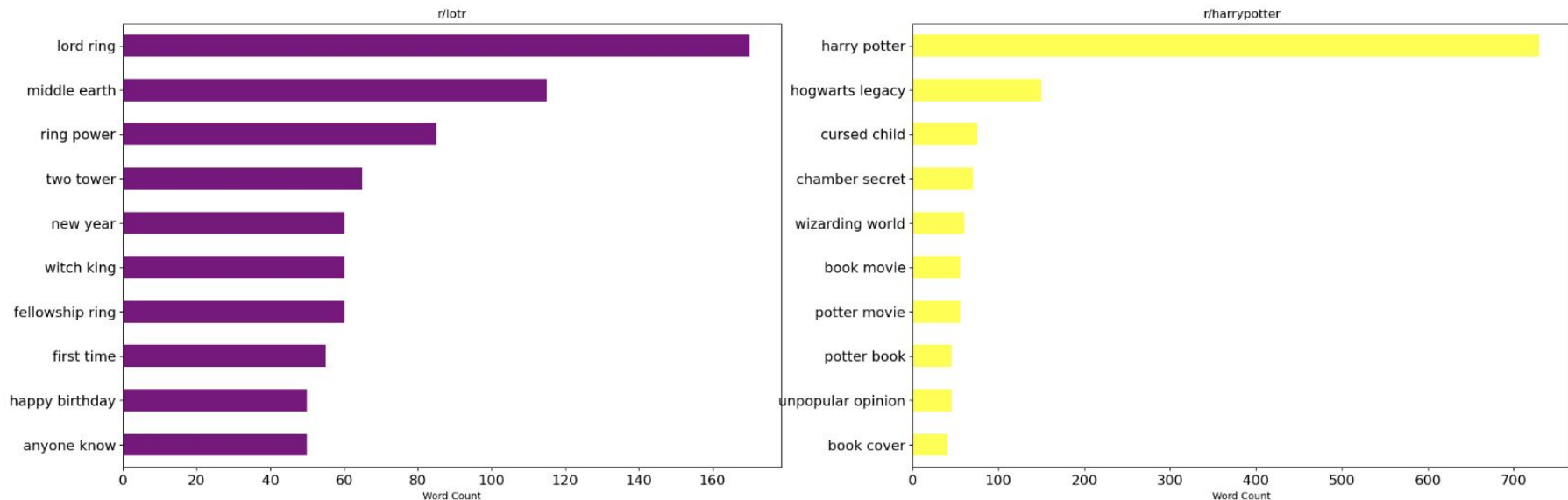
# Data Exploration

LOTR and HP Subreddit Tfidf in "Title" of Posts



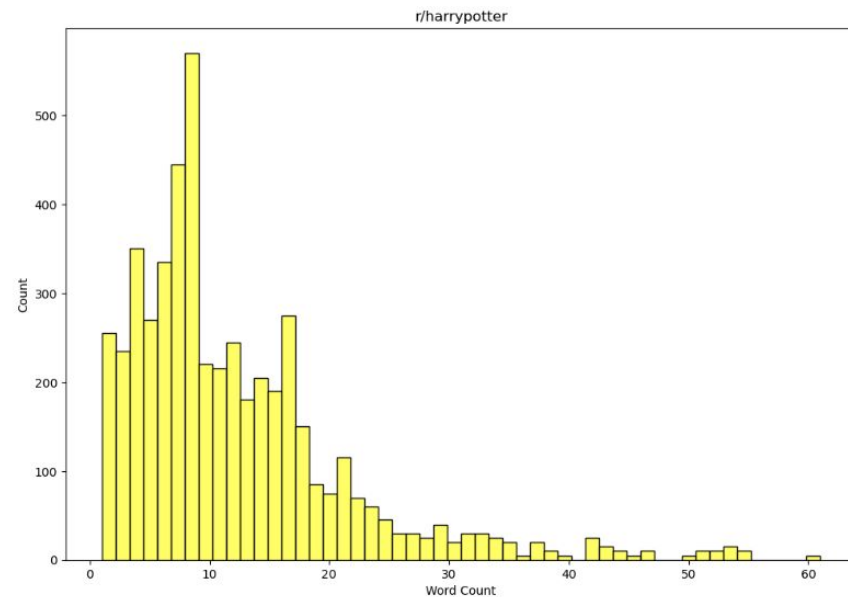
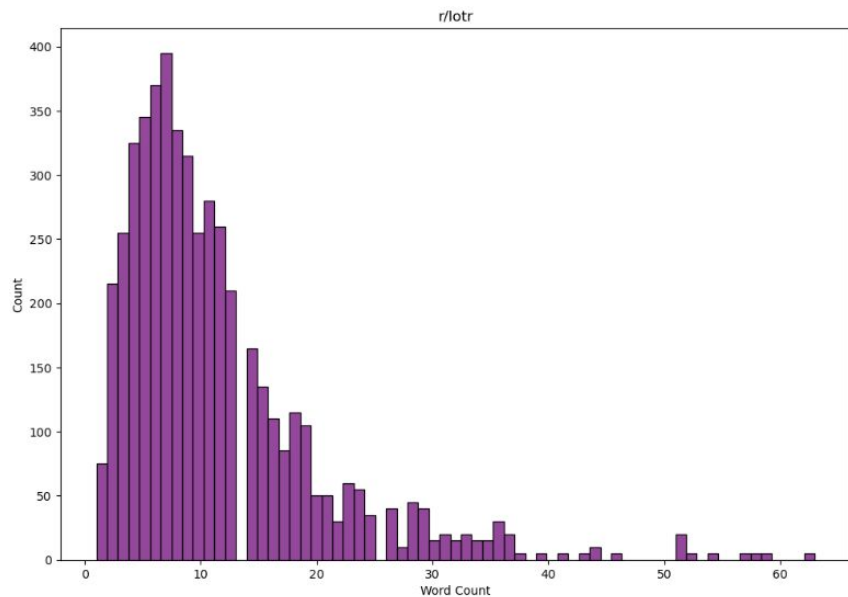
# Data Exploration

LOTR and HP Subreddit Bigram Count in "Title" of Posts



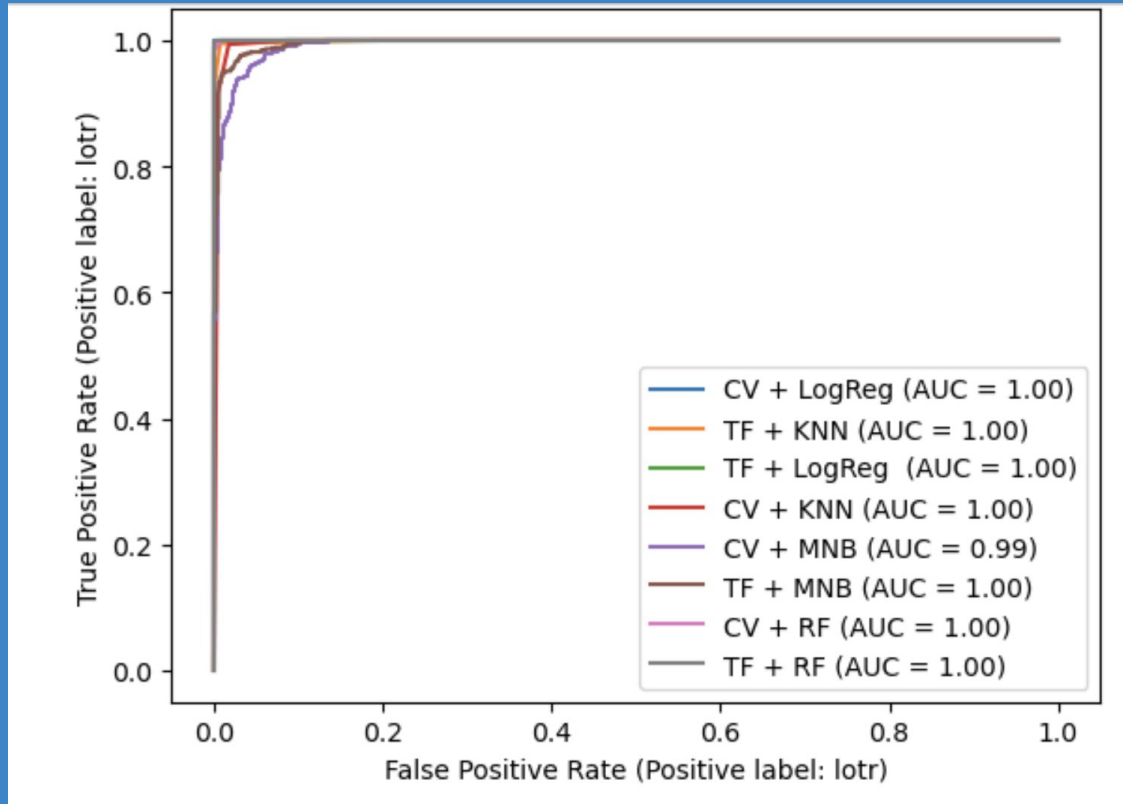
# Data Exploration

Word Count Distributions of Subreddit Posts



# Model Testing

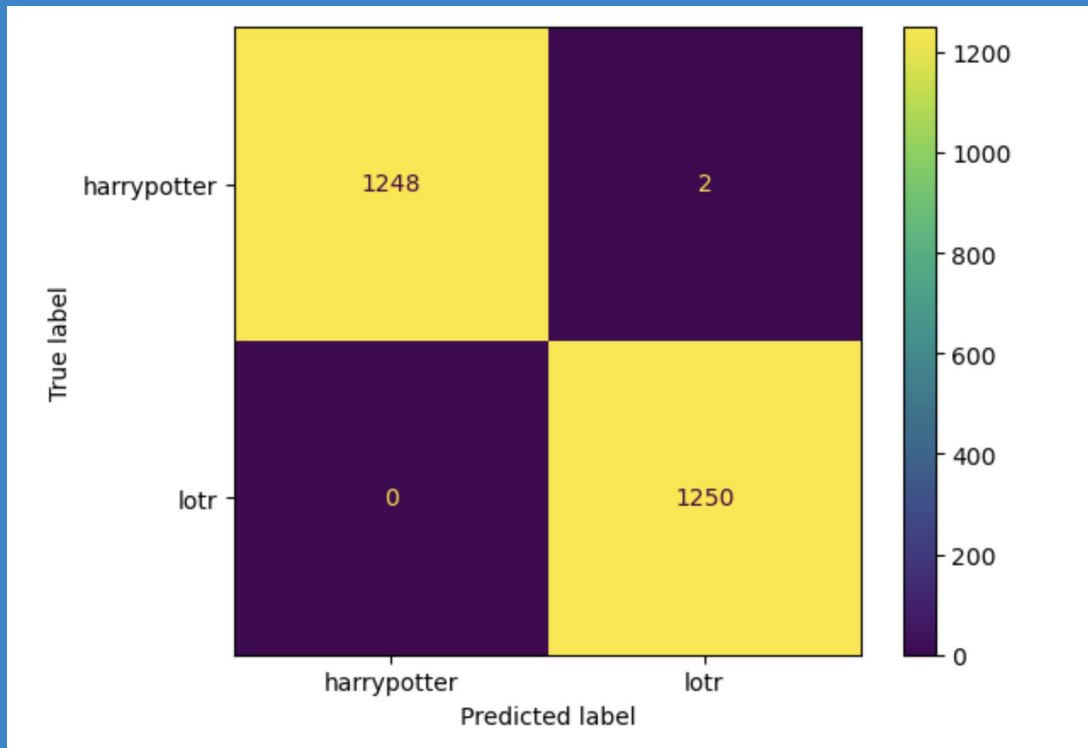
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# Model Testing

- Best performing model = Count Vectorizer + Logistic Regression



# Findings and Conclusions

- Very easy to distinguish the two subreddits using NLP.
- Going forward with second part of problem statement.
- Applications for use.

Thank you :)