

Classifying Subreddits

Space, AskScience & AskScienceFiction

Problem statement

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Correctly classify posts from the “AskScienceFiction” subreddit vs. (combined) “space” and “askscience”

Data problem

Collected posts for 10 days:

	count	percentage
AskScienceFiction	1,197	41.4%
space	957	33.1%
askscience	737	25.5%

Top-Level Results

TfidfVectorizer & MultinomialNB model was best:

	score
Balanced accuracy score	0.904701
F-1 score	0.890323
recall	0.862500
precision	0.920000

Data cleaning & prep

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- Making `subreddit` consistent
- Missing `selftext`

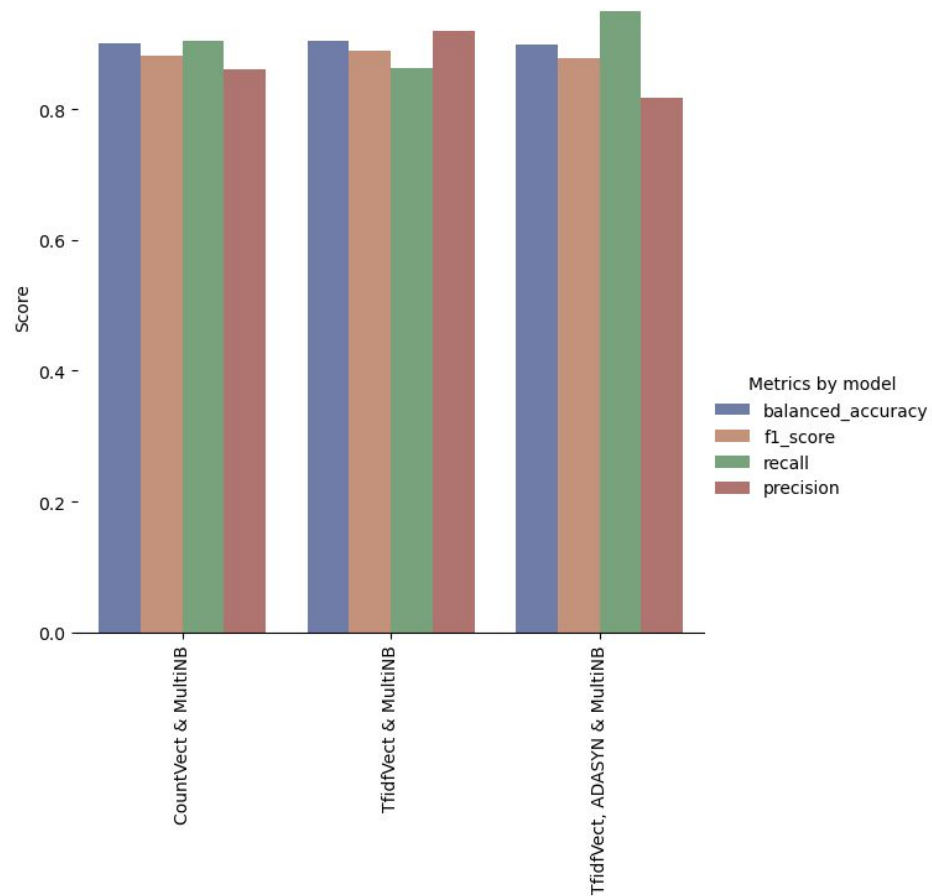
askscience	15.6%
AskScienceFiction	24.8%
space	81.9%

[illegible]

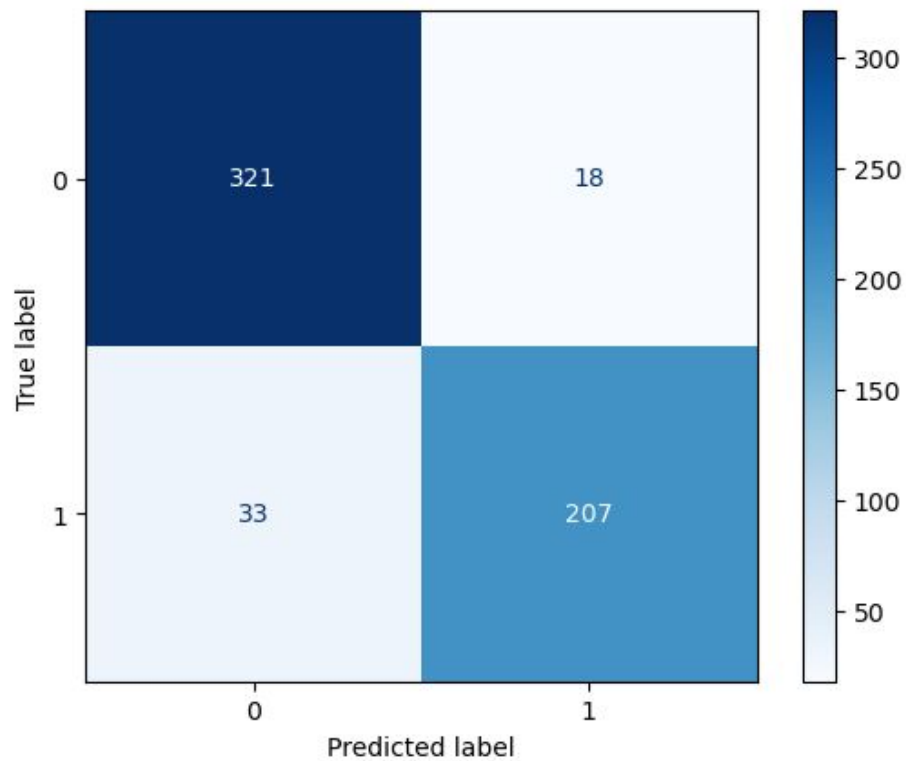
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Nine models

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Confusion matrix



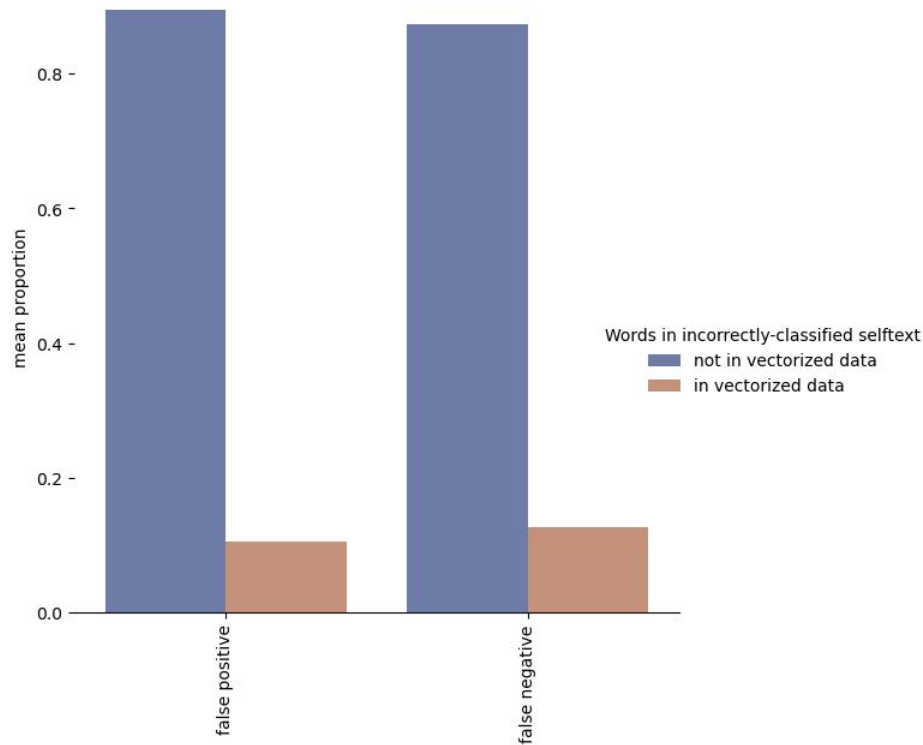
Breakdown of false positives

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	Proportion of negative class	Proportion of false positives
space	56.5%	11.1%
askscience	43.5%	88.9%

Lots of words don't make it into the model

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Future work

- Re-run models using ``title`` instead of ``selftext`` to see if there's any difference
- Try models that ended up with higher params