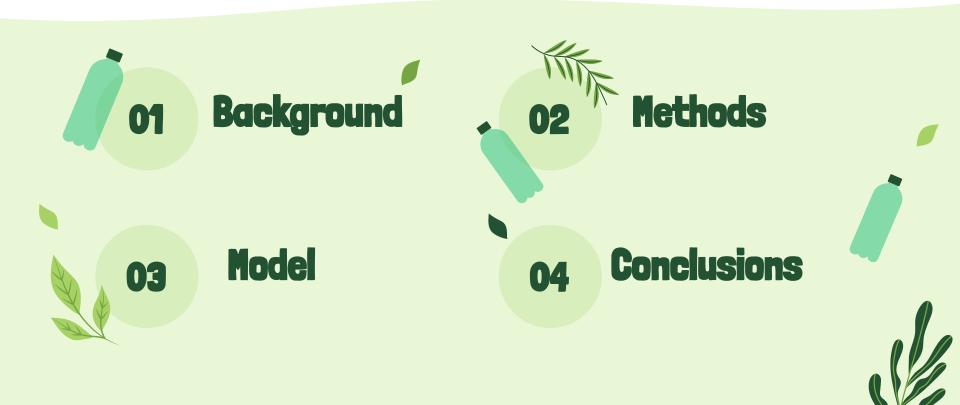


Agenda:



Background

- Who I am
- Why I'm here
 - Using Natural Language Processing techniques, can I determine if conversations within communities of Academia are encompassing language associated with sustainability?
- What you'll get from this



Methods



Collecting Data

Pushshift's API





EDA

Count Vectorizing

Word Frequency

Feature Engineering



Modelling

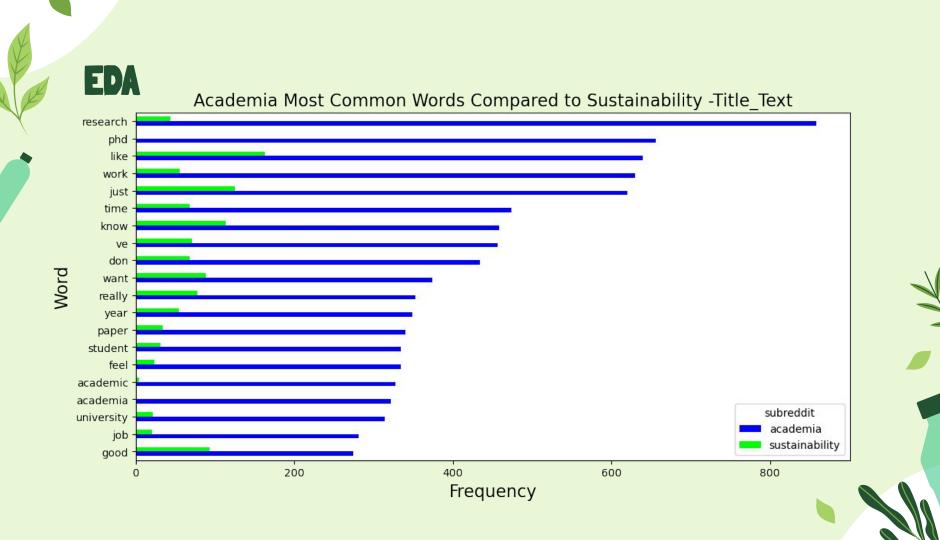
Logistic Regression

Count Vectorizing

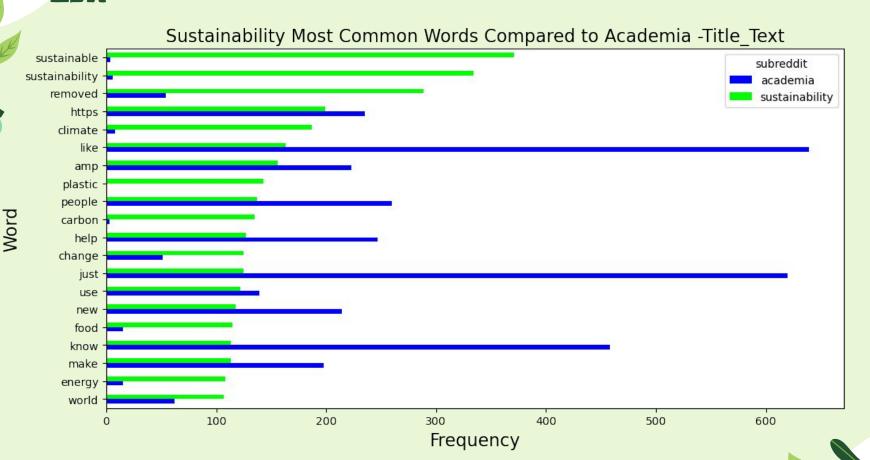
Random Forests

Stemming and Lemmatizing

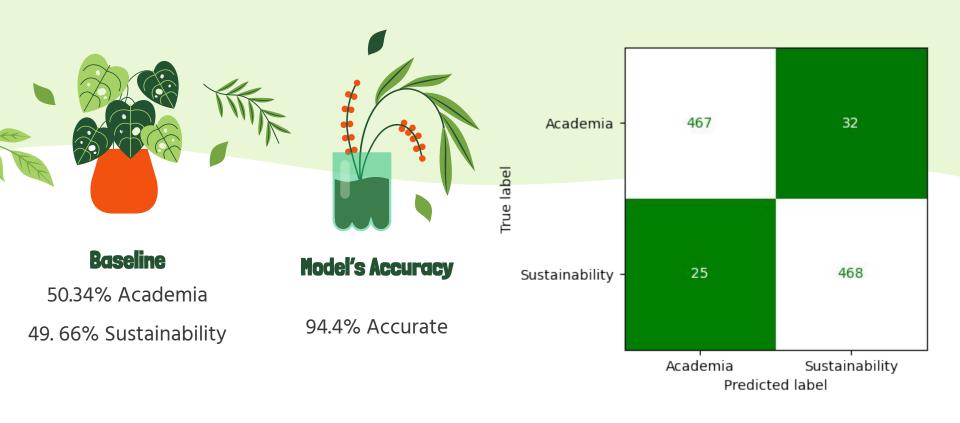
Metrics: Accuracy and Misclassification







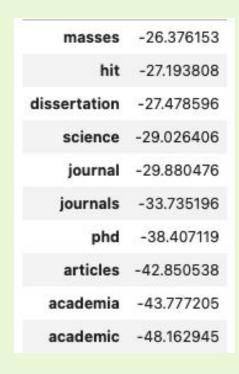
Highest Performing Model



Words the Model Learned Well

sustainable	58.510156
sustainability	54.289252
plastic	37.328896
change	30.331387
green	28.471360
climate	28.054080
energy	27.142198
water	26.038183
environmental	24.579373
waste	22.732393

These words had to most impact on the model predicting the posts were from Sustainability



These words had to most impact on the model predicting the posts were from Academia



Conclusions

YES! THE CONVERSATIONS ARE HAPPENING!

What are good methods of observation to avoid self-reporting bias in interviews? My project has to do with sustainable fashion consumption. I have come across this problem that respondents say they care for the environment or say they are shopping/using/discarding clothes in an ecofriendly way but they don't. \nWhat could be an experimental/observational design to measure real behavior? Fake shopping experiment? Observing people when they shop? \n\nI am grateful for any input :)

Predicted:
Sustainability

Actual: Academia



Next Steps:

More data!

Surveys!

Save the planet!



"The greatest threat to our planet is the belief that someone else will save it."

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