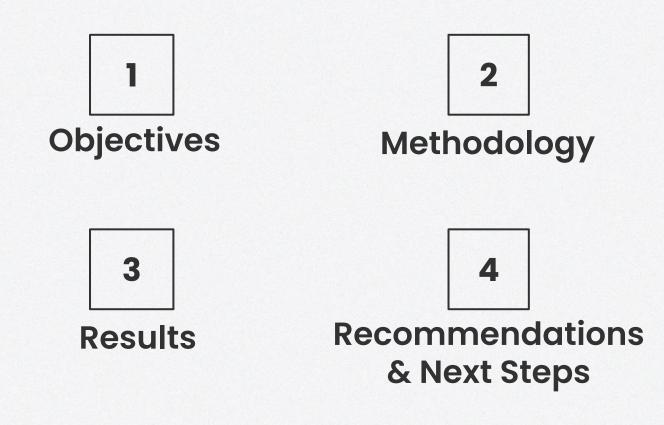
Decoding Album Reviews for Pink Floyd's Dark Side of the Moon: **Sentiment Analysis** using NLP

By Nicholas Bronson

Agenda



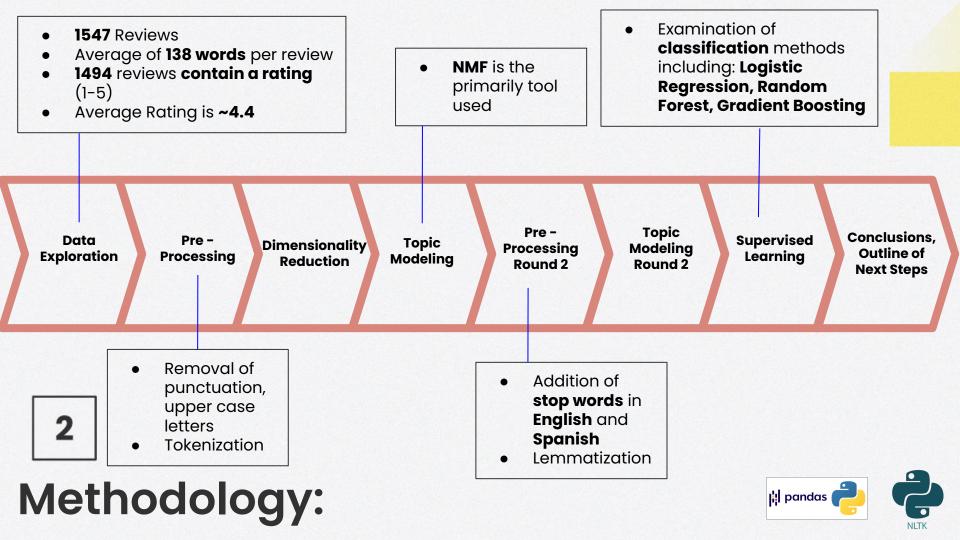
1 Objectives:

My client is a record label that is seeking to analyze text data that they have acquired regarding artists on their label and their peers.

They aim to conduct a larger scale analytics initiative, however, they wish to better understand how large text-based datasets can be analyzed.

Key Questions:

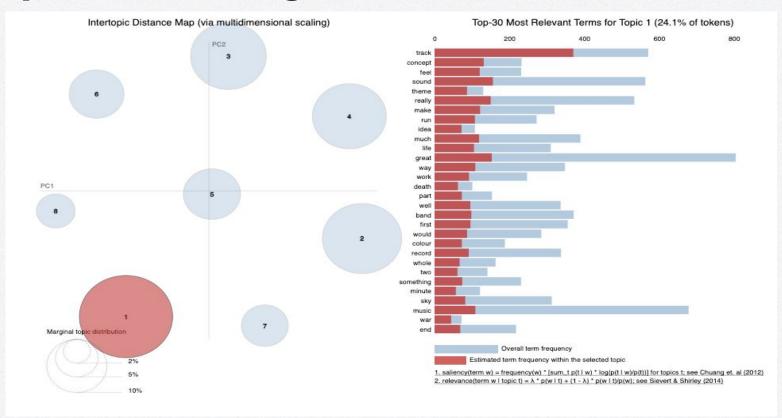
- Can text data be used to categorize and interpret album reviewer sentiments?
- 2) What are listener sentiments on Pink Floyd's Dark Side of the Moon, what are the perceived strengths and weaknesses of the album?



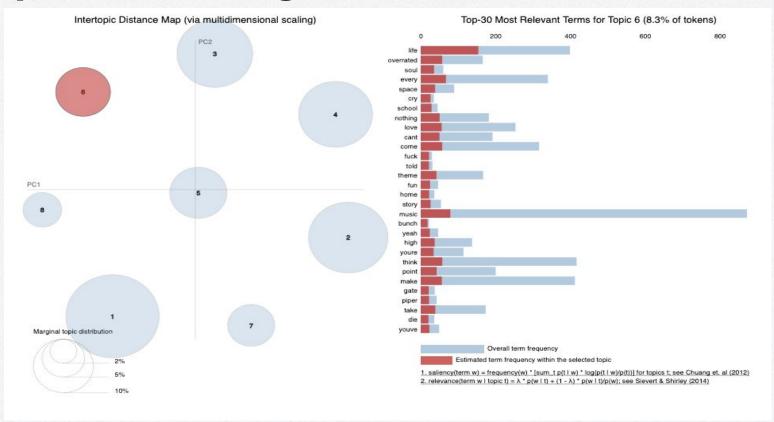
3 Findings - Topic Modeling

- I chose 8 topics the four of the most salient were as follows:
 - a) Extremely lengthy, highly positive and analytical reviews
 - b) Non-English reviews (Italian, Spanish, and Portuguese reviews were identified)
 - c) Short reviews labeling the album a "classic" or the "greatest album of all time"
 - d) Reviews noting the album is **too overrated**, or perhaps **good but overrated**

Topic Modeling - LDA Visualization

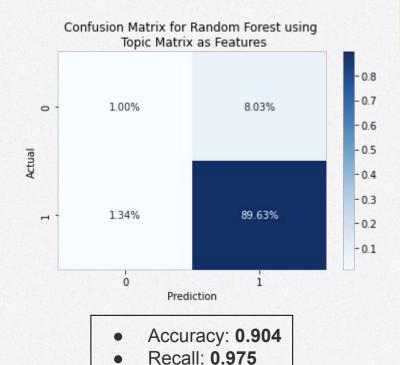


Topic Modeling - LDA Visualization



Classification - Random Forest

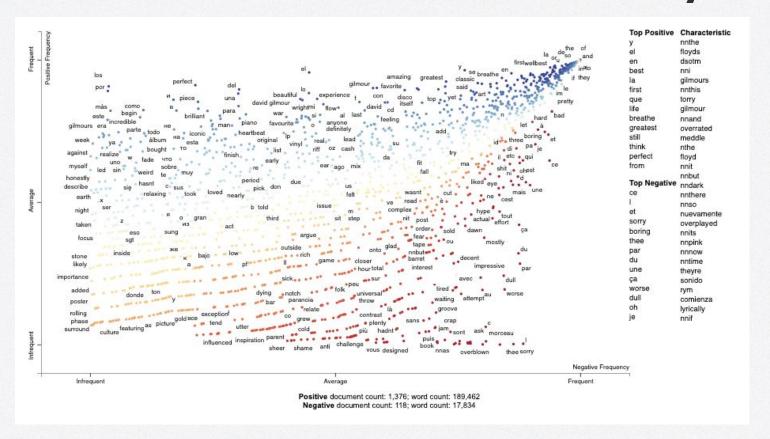
- A random forest was able to provide the most nuanced results, other models were having difficulty predicting true negatives
- This dataset is extremely unbalanced, with largely favorable reviews
- This model suffers from the same issue, however, it shows promise as far as its ability to capture some of the true negatives



Precision: 0.923

F1: **0.948**

Scatter Text - Sentiment Analysis



4 Conclusions

- Dark side of the moon is widely regarded as one of the "greatest" albums by reviewers
- 2) There is speculation that the album is "overrated"
- 3) The "guitar", "bass", and "piano" were mentioned frequently in reviews, seemingly well-regarded
- 4) The reviews were rather homogeneous

Recommendations & Next Steps

- Gather more data this will allow clearer topics to emerge
 - a) Analyzing full-bodies of work of multiple artists within a single genre
- 2) Utilize CorEx to hone in on specific topics
- 3) Use of genre data
 - a) Perhaps construction of a content-based recommendation system

Thank you!

