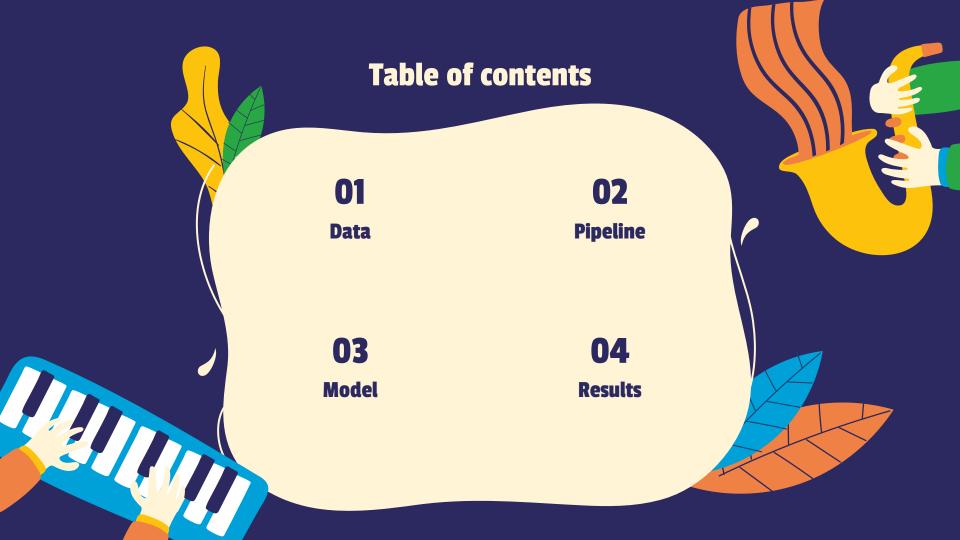




Topic Overview

Everyone loves music! But what are people saying about it on Twitter?

Let's dive into it...





Tweet Data

50,000

Tweets keyword: 'music' 2021-11-02 to 2021-11-09

3700

Tokenized words







Pipeline



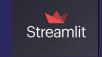


- Non-English Tweets
- **Duplicates**
- **Empty Tweets**

Topic Modeling

- **NMF**
- CorEx
- LDA







Gather Tweets

Snscrape

Text Preprocessing



- #hastags
- @mentions
- Punctuation
- Lemmatization
- Stop words

Streamlit

- Word/Topic Analyzation
- Deploy on Heroku





Choosing a Topic Model



NMF

- Good word-topid results
- Poor doc-topic alignment



CorEx

- Clearest Topic
 Results
- Anchoring was helpful



LDA

- pyLDAvis helpful
- Slowest



Best Topics from CorEx Model



Radio

Total Correlation: 0.78



New Music

Total Correlation: 1.11



Music Streaming

Total Correlation: 0.94



Music Taste

Total Correlation: 0.84



Official Video

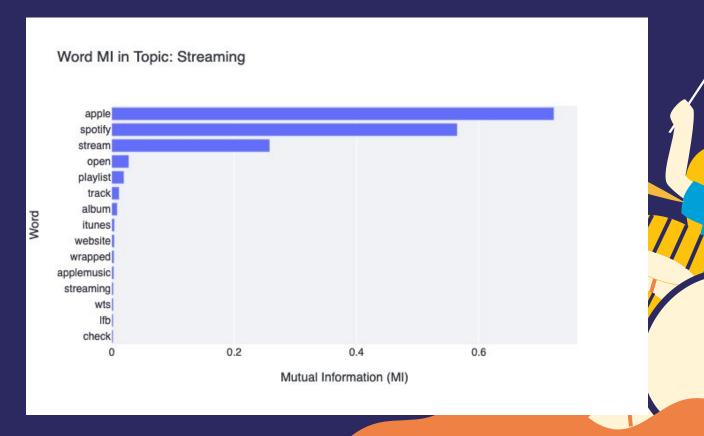
Total Correlation: 1.23



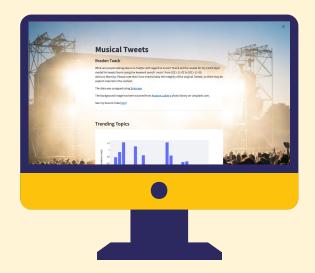
Twitter

Total Correlation: 1.23

Example Topic: Streaming



Streamlit Web App





Deployed on Heroku!

https://metis-musical-twe ets-project.herokuapp.co m/



Conclusions

- Lots of different topics within music on Twitter
- CorEx worked best for given model options
- Streamlit app for easy topic analysis

Thanks!

Do you have any questions?

https://metis-musical-tweets-p roject.herokuapp.com/

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik